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Region 4
Science and Ecosystem Support Division
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**Soil Gas Study
West Palm Beach Gasification Site
West Palm Beach, Palm Beach County, Florida
Date of Study: November 15-16, 2011**

SESD Project Identification Number: 12-0060

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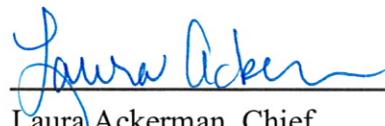
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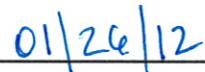
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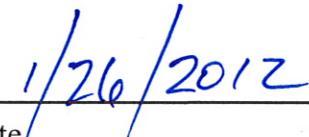


Date

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Date

TABLE OF CONTENTS

INTRODUCTION	4
BACKGROUND	4
STUDY DESIGN.....	4
INVESTIGATION METHODOLOGY.....	5
Sub-Slab Soil Gas Sampling.....	5
Crawl Space Air Sampling.....	5
Ambient Air Sampling.....	6
Sample Identification Protocols.....	6
ANALYTICAL PLAN	7
RESULTS	7
QUALITY ASSURANCE.....	8
TABLES	10
Table 1 SESD Target VOC Analytes.....	11
Table 2 Sampling Stations	12
Table 3 Soil Gas VOC Results for Sampling Stations WPG1 thru WPG3	13
Table 4 Soil Gas VOC Results for Sampling Stations WPG4 thru WPG6	14
Table 5 Soil Gas VOC Results for Sampling Stations WPG7 thru WPG9	15
APPENDIX A	16
SITE MAP	16
Map 1 West Palm Beach Gasification Soil Gas Study Sampling Locations	17
APPENDIX B PHOTOGRAPHS	18
APPENDIX C SOIL GAS VOC LABORATORY ANALYTICAL DATASHEETS	24

**WEST PALM BEACH GASIFICATION
SOIL GAS STUDY
West Palm Beach, Florida
November 15-16, 2011**

INTRODUCTION

On November 15-16, 2011, Tim Slagle and Doug Jager, US EPA, Region 4, Science and Ecosystem Support Division (SESD), and Nairimer Berrios-Cartagena, Oneida Total Integrated Enterprises (OTIE) conducted a soil gas study in residential properties located in vicinity of the former West Palm Beach Gasification facility located in the 800 block of 2nd Street, West Palm Beach, Florida. The investigation was requested by Chuck Berry, On-Scene Coordinator (OSC), EPA Region 4, Superfund Division.

BACKGROUND

A manufactured gas plant (MGP) operated in the 800 block of 2nd Street, West Palm Beach, Palm Beach County Florida (the Site) from 1916 to 1959. By-products of the manufactured gas process, which include VOCs and naphthalene, have impacted the soil and groundwater at the Site. The property at 804 2nd Street currently operates as a propane gas refueling station for Florida Power Utility Company (FPUC) fleet vehicles. The property is located at latitude 26.7153° north and longitude 80.0596° west.

The soil gas study area is a residential neighborhood located east and west of the former MGP site along 2nd Street. The homes in this area are, generally, single floor structures with slab or crawl space foundations.

The direction of groundwater flow is generally to the east/northeast and is estimated to be approximately ten feet below ground surface.

STUDY DESIGN

The purpose of this assessment was to collect sub-slab soil gas and crawl space air samples for VOC laboratory analysis. The data collected will be used by Region 4 Human Health risk assessors to determine if there is a potential for gaseous emissions emanating from the contaminated ground water to pose a health hazard for residents living in the area. The number of sampling locations was based on permission granted by the property owners/occupants. Access to the properties to be sampled was obtained by Chuck Berry, OSC, US EPA. The sampling area was located in the neighborhood east and west of the former Palm Beach Gasification facility located at 804 2nd Street, West Palm Beach, Florida.

Nine sampling stations were selected for sampling in the neighborhood. The sampling stations

were selected by Tim Slagle Environmental Scientist, EPA Region 4 SESD and Chuck Berry, OSC, EPA Region 4, Superfund Branch. The sampling stations are described in Table 2 and depicted on Map 1, contained in Appendix A.

INVESTIGATION METHODOLOGY

Sub-Slab Soil Gas Sampling

For homes built on a concrete slab, SESD used an electric hammer drill to bore a hole through the floor slab to conduct the sub-slab soil gas sample collection. After the hole was drilled a 1/4 inch Teflon® sampling tube fitted with a stainless steel screen barrier was inserted into the hole below the floor slab. The sampling tube at the surface of the floor slab was then sealed with a VOC free media. The tubing at the surface was attached to a TVA-1000B equipped with a flame ionization detector (FID)/photo-ionization detector (PID) to purge the sampling tube of intrusive ambient air with a low flow rate of less than 200 milliliters per minute (200 ml/min). Once the sampling tube had been purged using the TVA-1000B, it was disconnected from the sampling tube. The sampling tube was then connected to a flow device attached to the 6 liter Summa® stainless steel sampling canister. The soil gas samples were collected for 60-minutes. After the sampling was finished, the floor slab was sealed with concrete.

SESD collected a primary soil gas sample and one split sample, using Summa® canisters from 809 2nd Street, Apartment #3, one of 4 apartments in a single floor residential structure built with a concrete slab foundation. This sampling location was designated WPG 4. The soil gas split samples were collected at the same time and through a common 1/4 inch sampling tube. This was accomplished by installing a “tee” at the free end of the sample tube and splitting the flow of soil gas through 2 separate limiting orifices and into 2 separate evacuated Summa® canisters (Appendix B; Photo 5).

Crawl Space Air Sampling

SESD collected a primary 24-hour crawl space air sample and one split sample, using Summa® canisters from 618^{1/2} & 624 2nd Street, which is a single residential structure built with a crawl space foundation. This was the only crawl space sampling location in the study, and was designated WPG 3. Access to the crawl space was very limited and manual placement of the sampling canisters was not possible. Therefore, the crawl space samples were collected using a 20 foot length of 1/8 inch stainless steel tubing fitted with a stainless steel screen barrier at the inlet. The exit of the tubing was fitted with a “tee” that split the flow thru 2 separate 24-hour flow controllers into their respective canisters. The stainless steel tubing was attached to a 20 foot piece of metal conduit. This sampling apparatus was slid thru a small foundation opening and placed as close to the center of the house as possible. The sampling canisters remained on the outside of the structure (Appendix B; Photos 3 and 4).

Ambient Air Sampling

Two 24-hour ambient air control samples (WPG1 and WPG2) were collected outside the structure within the neighborhood, during the crawlspace sampling interval to assess the background concentrations of VOCs contained in the ambient air that may be infiltrating the crawl space. Sample location WPG1 was located in a fenced vacant lot located at the corner of North Sapodilla Avenue and 2nd Street. The aerial picture used in Map 1 shows this sample location under a structure which was not present at the time of this study (Appendix B; Photo 1). Sample location WPG2 was located in the fenced backyard of 618^{1/2} & 624 2nd Street (Appendix B; Photo 2).

Sample Identification Protocols

SESD used the following Station ID naming convention for the sampling stations used for this investigation;

WPG for West Palm Beach Gasification followed by a numerical Station ID.
Therefore, the entire Station ID would read WPG3

Sample Names began with the Station-ID and were followed by a matrix identifier;

- SG for sub-slab soil gas
- CA for crawlspace air
- AA for ambient air

The matrix identifier was followed by the month-year of the sampling event. For example, a crawl space sample collected at sample station WPG3 in November 2011 would have a Sample Name as follows:

WPG3CANOV11

Split samples are identified with an “S” following the sampling Station ID. For example, a split crawl space sample collected at sample station WPG3 sampled in November 2011 would have a Sample Name as follows:

WPG3SCANOV11

All samples were collected and handled in accordance with the EPA Region 4 *SESD Field Branches Quality System and Technical Procedures*. The following specific procedures were used during sample collection for all direct field measurements and sampling activities:

- SESDPROC-303-R4 Ambient Air Sampling
- SESDPROC-307-R2 Soil Gas Sampling
- SESDPROC-110-R3 Global Positioning System (GPS)
- SESDPROC-005-R1 Sample and Evidence Management
- SESDPROC-010-R4 Log Books

ANALYTICAL PLAN

Samples for this investigation were analyzed in accordance with the SESD *Analytical Support Branch Laboratory Operations and Quality Assurance Manual, January 2011*. The VOC soil gas samples were analyzed by the SESD laboratory using method TO-15 from the *EPA Compendium of Methods to the Determination of Toxic Organic Compounds in Ambient Air*.

RESULTS

At the request of Chuck Berry, On-Scene Coordinator (OSC), EPA Region 4, Superfund Branch, preliminary naphthalene results were forwarded to him on January 12, 2012. None of the requested preliminary data has changed.

The sampling locations are described in Table 2. The summary tables of the Volatile Organic Compound (VOC) analytical results for the samples are in Tables 3 to 5. Appendix A; Map 1 contains an aerial image of the sampling locations for the study. Appendix B contains selected photographs of all the sampling locations. The SESD Laboratory Analysis Sheets for the Soil Gas Results are contained in Appendix C.

The GPS sample locations recorded in the field were inaccurate, which was likely due to heavy tree cover and proximity to nearby buildings. The GPS latitude and longitude locations recorded in Table 2 were adjusted using Google Maps®.

Table 1 contains a list of the SESD VOC Target Analytes. At the request of Chuck Berry, OSC, EPA Region 4, Superfund Branch, naphthalene was added to the list of target analytes because of its presence in the groundwater. A Target VOC Analyte is identified based on a match with the instrument software's mass spectral library, and a calibration standard has been analyzed to confirm the compound's identification and the concentration reported.

Many of the analytical results are followed by "Data Qualifiers" which are summarized below and on page 4 of the Soil Gas VOC Laboratory Analysis Sheets contained in Appendix C and below:

- U The analyte was not detected at or above the reporting limit.
- D-2 Due to Matrix Interference, the sample cannot be accurately quantified. The reported result is estimated.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- N There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
- NJ Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
- Q-2 Result greater than MDL but less than MRL.
- QC-1 Analyte concentration low in continuing calibration verification standard
- QC-2 Analyte concentration high in continuing calibration verification standard
- QC-4 Result greater than the highest point on the calibration curve

- QL-1 Laboratory Control Spike Recovery less than method control limits
- QL-2 Laboratory Control Spike Recovery greater than method control limits
- QR-2 MRL verification recovery greater than upper control limits.

The soil gas analytical results, including two ambient air control samples WPG1 and WPG2 contain numerous low level concentrations of VOCs. Samples from three sampling stations, WPG6, WPG7 and WPG9, contained detectable concentrations of naphthalene. Naphthalene concentrations are highlighted in yellow throughout the summary tables. The soil gas concentrations of naphthalene found in the aforementioned sample locations are summarized below.

The highest concentration of naphthalene in the soil gas was recorded at sample location WPG6. Sample WPG6SGNOV11 was collected under the floor slab located at 809 2nd Street, Apartment #1 (Appendix B; Photo 7).

WPG6 Soil Gas Sample

WPG6SGNOV11

Naphthalene 33 ug/m³

Sample station WPG7 is located at 815 2nd Street, Apartment #1. The soil gas sample; WPG7SGNOV11, was collected under the floor slab (Appendix B; Photo 8).

WPG7 Soil Gas Sample

WPG7SGNOV11

Naphthalene 3.0 J, QC-2, QL-2, QR-2 ug/m³

Sample station WPG9 is located at 817 2nd Street, Apartment #4. The soil gas sample; WPG9SGNOV11, was collected under the floor slab (Appendix B; Photo 10).

WPG9 Soil Gas Sample

WPG9SGNOV11

Naphthalene 6.4 J, QR-2 ug/m³

QUALITY ASSURANCE

All of the canisters and sampling devices were checked for contamination before use.

Split samples were collected at 2 locations; WPG3 and WPG4. As discussed earlier, split samples are identified with an “S” following the sampling Station ID. The split samples were collected during the same time interval as the primary sample to assess method precision.

The split-sample results collected at monitoring sites were similar, confirming the method precision was good (see Tables 3 and 4).

Two field blank canisters; TB1 and TB2 were evacuated and transported to the field but not exposed, to check the possibility of contamination of the soil gas samples during transport and storage. Analysis of the field blank canisters showed that they remained clean, confirming there were no contaminants introduced during the sampling period or analysis.

TABLES

Table 1
SESD Target VOC Analytes

(m- and/or p-)Xylene	
1,1,1-Trichloroethane	Chloroform
1,1,2,2-Tetrachloroethane	Chloromethane
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	cis-1,2-Dichloroethene
1,1,2-Trichloroethane	cis-1,3-Dichloropropene
1,1-Dichloroethane	Cyclohexane
1,1-Dichloroethylene (1,1-Dichloroethylene)	Dibromochloromethane
1,2,4-Trichlorobenzene	Dichlorodifluoromethane
1,2,4-Trimethylbenzene	Ethyl Acetate
1,2-Dibromoethane (EDB)	Ethyl Benzene
1,2-Dichlorobenzene	Heptane
1,2-Dichloroethane	Hexachlorobutadiene
1,2-Dichloropropane	Hexane
1,2-Dichlorotetrafluoroethane (Freon 114)	Isooctane
1,3,5-Trimethylbenzene	Isopropanol
1,3-Butadiene	Methyl Butyl Ketone
1,3-Dichlorobenzene	Methyl Ethyl Ketone
1,4-Dichlorobenzene	Methyl Isobutyl Ketone
1,4-Dioxane	Methyl T-Butyl Ether (MTBE)
3-Chloropropene	Methylene Chloride
4-Ethyltoluene	o-Xylene
Acetone	Propene
Acrylonitrile	Styrene
Benzene	Tetrachloroethene (Tetrachloroethylene)
Benzyl chloride	Tetrahydrofuran
Bromodichloromethane	Toluene
Bromoform	trans-1,2-Dichloroethene
Bromomethane	trans-1,3-Dichloropropene
Carbon disulfide	Trichloroethene (Trichloroethylene)
Carbon Tetrachloride	Trichlorofluoromethane (Freon 11)
Chlorobenzene	Vinyl acetate
Chloroethane	Vinyl bromide
	Vinyl chloride

Naphthalene added at the request of Chuck Berry, OSC, EPA Region 4, Superfund Branch for the purposes of this study.

Table 2
Sampling Stations
West Palm Beach Gasification Soil Gas Study
November 2011

Station ID	Sample Name	Matrix	Latitude	Longitude	Location
WPG1	WPG1AANOV11	Ambient Air	26.71511	-80.05847	Vacant lot corner of N.Sapodilla Ave & 2nd Street
WPG2	WPG2AANOV11	Ambient Air	26.71516664	-80.05782688	6181/2 & 624 2nd Street - backyard
WPG3	WPG3CANOV11	Crawl Space	26.71519395	-80.05788186	6181/2 & 624 2nd Street
WPG3	WPG3SCANOV11	Crawl Space - Split	26.71519395	-80.05788186	6181/2 & 624 2nd Street
WPG4	WPG4SGNOV11	Sub-Slab Soil Gas	26.71573981	-80.05993019	809 2nd Street, Apt.# 3
WPG4	WPG4SSGNOV11	Sub-Slab Soil Gas - Split	26.71573981	-80.05993019	809 2nd Street, Apt.# 3
WPG5	WPG5SGNOV11	Sub-Slab Soil Gas	26.71573849	-80.06010675	815 2nd Street, Apt.# 3
WPG6	WPG6SGNOV11	Sub-Slab Soil Gas	26.71559801	-80.05993464	809 2nd Street, Apt.# 1
WPG7	WPG7SGNOV11	Sub-Slab Soil Gas	26.71560908	-80.06011325	815 2nd Street, Apt.# 1
WPG8	WPG8SGNOV11	Sub-Slab Soil Gas	26.71565632	-80.06026105	817 2nd Street, Apt.# 2
WPG9	WPG9SGNOV11	Sub-Slab Soil Gas	26.71579812	-80.06025512	817 2nd Street, Apt.# 4
#R4DART#	TB1	Field Blank	N/A	N/A	N/A
#R4DART#	TB2	Field Blank	N/A	N/A	N/A

NOTE: The GPS locations recorded in the field logbooks were inaccurate, which was likely due to heavy tree and building cover.
The sampling locations have been adjusted using Google Maps®.

Table 3**Soil Gas VOC Results for Sampling Stations WPG1 thru WPG3**

STATION ID SAMPLE NAME SAMPLE DATE	WPG1	WPG2	WPG3	
	WPG1AA Nov 11	WPG2AA Nov 11	WPG3CA Nov 11	WPG3SCA Nov 11
	11/16/2011	11/16/2011	11/16/2011	
SESD TARGET VOC ANALYTICS	UNITS			
(m- and/or p-)Xylene	ug/m3			
1,1,1-Trichloroethane	ug/m3			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/m3	0.58 J,O	0.50 J,O	0.61 J,O
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3			
1,2,4-Trimethylbenzene	ug/m3			
1,2-Dichlorotetrafluoroethane (Freon 114)	ug/m3			
1,3,5-Trimethylbenzene	ug/m3			
1,3-Butadiene	ug/m3			
1,4-Dichlorobenzene	ug/m3			
1,4-Dioxane	ug/m3			
3-Chloropropene	ug/m3		0.40 J,O	
Acetone	ug/m3	5.3	4.9	8.5
Acrylonitrile	ug/m3			
Benzene	ug/m3	0.19 J,O	0.16 J,O	0.21 J,O
Bromodichloromethane	ug/m3			
Carbon disulfide	ug/m3		0.11 J,O	0.13 J,O
Carbon Tetrachloride	ug/m3	0.48 J,O	0.42 J,O	0.48 J,O
Chlorobenzene	ug/m3			
Chloroform	ug/m3			
Chloromethane	ug/m3	1.3 J,O	1.3 J,O	1.5 J,O
Cyclohexane	ug/m3			1.9 J,O
Dichlorodifluoromethane	ug/m3	2.6	2.5	2.8
Ethyl Benzene	ug/m3			
Heptane	ug/m3			
Hexane	ug/m3		0.16 J,O	
Isopropanol	ug/m3			1.3 J,O
Methyl Butyl Ketone	ug/m3			0.35 J,O
Methyl Ethyl Ketone	ug/m3	0.66 J,O	0.74 J,O	0.93 J,O
Methyl Isobutyl Ketone	ug/m3			
Methylene Chloride	ug/m3	0.16 J,O	0.16 J,O	0.19 J,O
Naphthalene	ug/m3			
o-Xylene	ug/m3			
Petroleum Product	ug/m3			
Propene	ug/m3			1.1 J,O
Styrene	ug/m3			
Tetrachloroethene (Tetrachloroethylene)	ug/m3			
Tetrahydrofuran	ug/m3			
Toluene	ug/m3	0.32 J,O	0.37 J,O	0.43 J,O
Trichloroethene (Trichloroethylene)	ug/m3			
Trichlorofluoromethane (Freon 11)	ug/m3	1.4 J,O	1.5 J,O	1.6 J,O
TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				
Acetaldehyde (TIC)	ug/m3		30 NJ	40 NJ
Butane (TIC)	ug/m3		50 NJ	30 NJ
Butanol (TIC)	ug/m3			
Dichlorofluoroethane (TIC)	ug/m3			
Ethanol (TIC)	ug/m3			
Hexanal (TIC)	ug/m3			
Limonene (TIC)	ug/m3			
Methylbutane (TIC)	ug/m3			
Methylpropene (TIC)	ug/m3			
Pentane (TIC)	ug/m3			
Pinene (TIC)	ug/m3			
Unidentified Compound(s)	ug/m3	100 J		

Table 4**Soil Gas VOC Results for Sampling Stations WPG4 thru WPG6**

STATION ID	WPG4		WPG5	WPG6	
	SAMPLE NAME	WPG4SGNov11	WPG4SSGNov11	WPG5SGNov11	WPG6SGNov11
SAMPLE DATE	11/15/2011		11/15/2011	11/15/2011	11/15/2011
SESD TARGET VOC ANALYTES					
(m- and/or p-)Xylene	ug/m3	0.35 J,O	0.32 J,O	0.49 J,O	4.0
1,1,1-Trichloroethane	ug/m3				0.22 J,O
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/m3	0.59 J,O	0.58 J,O	0.55 J,O	0.58 J,O
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3				0.32 J,O
1,2,4-Trimethylbenzene	ug/m3	0.18 J,O	0.20 J,O	0.26 J,O	3.8
1,2-Dichlorotetrafluoroethane (Freon 114)	ug/m3				
1,3,5-Trimethylbenzene	ug/m3				2.0
1,3-Butadiene	ug/m3				
1,4-Dichlorobenzene	ug/m3	0.57 J,O	0.54 J,O	3.8	2.1 J,O
1,4-Dioxane	ug/m3				
3-Chloropropene	ug/m3				
Acetone	ug/m3	32	35	40	48
Acrylonitrile	ug/m3	0.18 J,O	0.18 J,O	0.14 J,O	0.17 J,O
Benzene	ug/m3	2.5	2.3	1.1 J,O	4.0
Bromodichloromethane	ug/m3	0.78 J,O	0.72 J,O		
Carbon disulfide	ug/m3	5.8	5.9	2.1	3.3
Carbon Tetrachloride	ug/m3	0.24 J,O	0.28 J,O	0.26 J,O	0.84 J,O
Chlorobenzene	ug/m3				0.19 J,O
Chloroform	ug/m3	8.6	8.2	1.3 J,O	38
Chloromethane	ug/m3			0.22 J,O	0.28 J,O
Cyclohexane	ug/m3				5.7
Dichlorodifluoromethane	ug/m3	2.9	2.9	2.7	2.8
Ethyl Benzene	ug/m3	0.31 J,O	0.32 J,O	0.36 J,O	1.7 J,O
Heptane	ug/m3				5.3
Hexane	ug/m3	0.63 J,O	0.50 J,O	0.45 J,O	1.1 J,O
Isopropanol	ug/m3	7.2 J,O	7.3 J,O	17 J,O	1.7 J,O
Methyl Butyl Ketone	ug/m3	14	15	4.2	
Methyl Ethyl Ketone	ug/m3	4.8	5.2	8.4	10
Methyl Isobutyl Ketone	ug/m3	1.6 J,O	1.6 J,O	0.65 J,O	
Methylene Chloride	ug/m3				0.19 J,O
Naphthalene	ug/m3				33
o-Xylene	ug/m3	0.16 J,O		0.22 J,O	2.1
Petroleum Product	ug/m3				N
Propene	ug/m3	3.6	3.8	4.6	7.8
Styrene	ug/m3	0.18 J,O	0.16 J,O	0.18 J,O	
Tetrachloroethene (Tetrachloroethylene)	ug/m3	2.0 J,O	1.9 J,O	9.8	4.2
Tetrahydrofuran	ug/m3		0.10 J,O		0.13 J,O
Toluene	ug/m3	1.1 J,O	1.1 J,O	2.0	18
Trichloroethene (Trichloroethylene)	ug/m3				7.8
Trichlorofluoromethane (Freon 11)	ug/m3	4.3	4.1	1.5 J,O	2.2 J,O
TENTATIVELY IDENTIFIED COMPOUNDS (TICS)					
Acetaldehyde (TIC)	ug/m3	200 NJ	100 NJ		900 NJ
Butane (TIC)	ug/m3	100 NJ	100 NJ	20 NJ	200 NJ
Butanol (TIC)	ug/m3	400 NJ	400 NJ		
Dichlorofluoroethane (TIC)	ug/m3	100 NJ	90 NJ	90 NJ	70 NJ
Ethanol (TIC)	ug/m3		20 NJ		
Hexanal (TIC)	ug/m3				
Limonene (TIC)	ug/m3				
Methylbutane (TIC)	ug/m3				
Methylpropene (TIC)	ug/m3	40 NJ			
Pentane (TIC)	ug/m3	20 NJ			50 NJ
Pinene (TIC)	ug/m3				
Unidentified Compound(s)	ug/m3				

Table 5**Soil Gas VOC Results for Sampling Stations WPG7 thru WPG9**

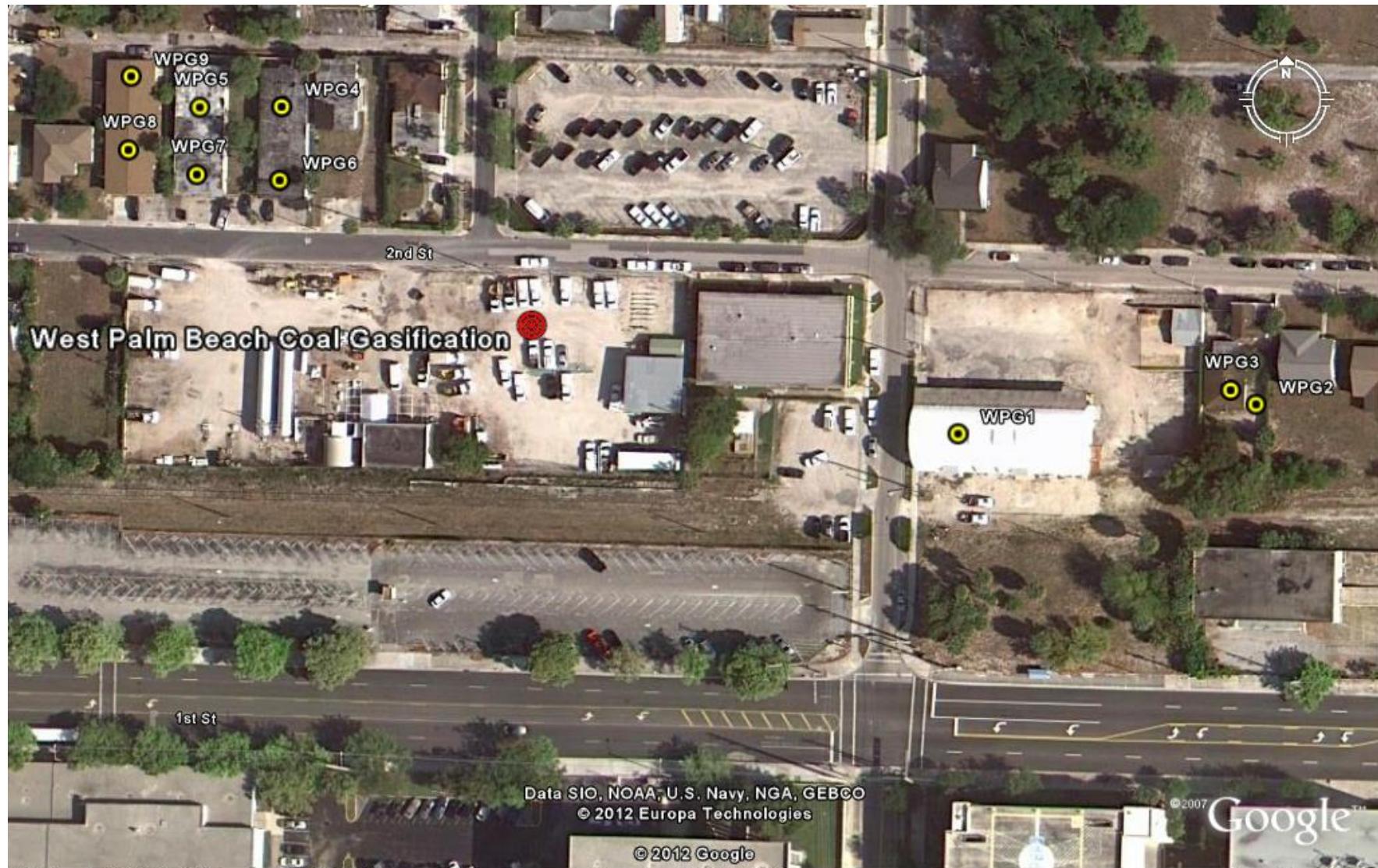
SAMPLE NAME	STATION ID	WPG7	WPG8	WPG9
SAMPLE DATE		11/15/2011	11/16/2011	11/16/2011
SESD TARGET VOC ANALYTES	UNITS			
(m- and/or p-)Xylene	ug/m3	0.81 J,O	0.66 J,O	2.4 J,O
1,1,1-Trichloroethane	ug/m3		0.25 J,O	0.18 J,O
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/m3	0.69 J,O	0.64 J,O	0.41 J,O
1,1-Dichloroethene (1,1-Dichloroethylene)	ug/m3			
1,2,4-Trimethylbenzene	ug/m3	0.77 J,O	0.35 J,O	3.3
1,2-Dichlorotetrafluoroethane (Freon 114)	ug/m3	0.27 J,O		
1,3,5-Trimethylbenzene	ug/m3			0.27 J,O
1,3-Butadiene	ug/m3			3.3
1,4-Dichlorobenzene	ug/m3	0.33 J,O	0.43 J,O	1.1 J,O
1,4-Dioxane	ug/m3			0.55 J,O
3-Chloropropene	ug/m3			
Acetone	ug/m3	37	170 J,O	230 J,O
Acrylonitrile	ug/m3	0.19 J,O	0.21 J,O	0.70 J,O
Benzene	ug/m3	1.3	1.4	4.9
Bromodichloromethane	ug/m3		0.33 J,O	
Carbon disulfide	ug/m3	2.8	2.1	3.1
Carbon Tetrachloride	ug/m3	0.29 J,O	0.39 J,O	0.35 J,O
Chlorobenzene	ug/m3			0.35 J,O
Chloroform	ug/m3	4.7	12	3.1
Chloromethane	ug/m3		0.62 J,O	
Cyclohexane	ug/m3			41
Dichlorodifluoromethane	ug/m3	3.3	2.8	2.4
Ethyl Benzene	ug/m3	0.46 J,O	0.41 J,O	2.9
Heptane	ug/m3		7.5	65
Hexane	ug/m3	0.40 J,O	2.7	15
Isopropanol	ug/m3	13 J,O	520	120 J,O
Methyl Butyl Ketone	ug/m3	0.73 J,O	3.2 J,O	
Methyl Ethyl Ketone	ug/m3	6.6	23	21
Methyl Isobutyl Ketone	ug/m3		1.5 J,O	1.0 J,O
Methylene Chloride	ug/m3			
Naphthalene	ug/m3	3.0 J,O		6.4 J,O
o-Xylene	ug/m3	0.46 J,O	0.41 J,O	1.1 J,O
Petroleum Product	ug/m3		N	N
Propene	ug/m3	14	9.2	180 J,O
Styrene	ug/m3	0.21 J,O	0.29 J,O	31
Tetrachloroethene (Tetrachloroethylene)	ug/m3	63	2.9	0.84 J,O
Tetrahydrofuran	ug/m3		0.16 J,O	0.23 J,O
Toluene	ug/m3	2.0	2.2	9.8
Trichloroethene (Trichloroethylene)	ug/m3	0.29 J,O		
Trichlorofluoromethane (Freon 11)	ug/m3	1.6 J,O	1.4 J,O	1.4 J,O
TENTATIVELY IDENTIFIED COMPOUNDS (TICS)				
Acetaldehyde (TIC)	ug/m3	100 NJ		90 NJ
Butane (TIC)	ug/m3	600 NJ		2000 NJ
Butanol (TIC)	ug/m3			
Dichlorofluoroethane (TIC)	ug/m3	100 NJ		
Ethanol (TIC)	ug/m3			200 NJ
Hexanal (TIC)	ug/m3			30 NJ
Limonene (TIC)	ug/m3			30 NJ
Methylbutane (TIC)	ug/m3			60 NJ
Methylpropene (TIC)	ug/m3			
Pentane (TIC)	ug/m3			
Pinene (TIC)	ug/m3			20 NJ
Unidentified Compound(s)	ug/m3			100 J

APPENDIX A

SITE MAP

Map 1

West Palm Beach Gasification Soil Gas Study Sampling Locations November 2011



APPENDIX B

PHOTOGRAPHS



Photo 1; Sample Station WPG 1



Photo 2; Sample Station WPG 2



Photo 3; Sample Station WPG 3



Photo 4; Close up of Crawlspace split-sampling at Sample Station WPG 3



Photo 5; Sample Station WPG 4



Photo 6; Sample Station WPG 5



Photo 7; Sample Station WPG 6

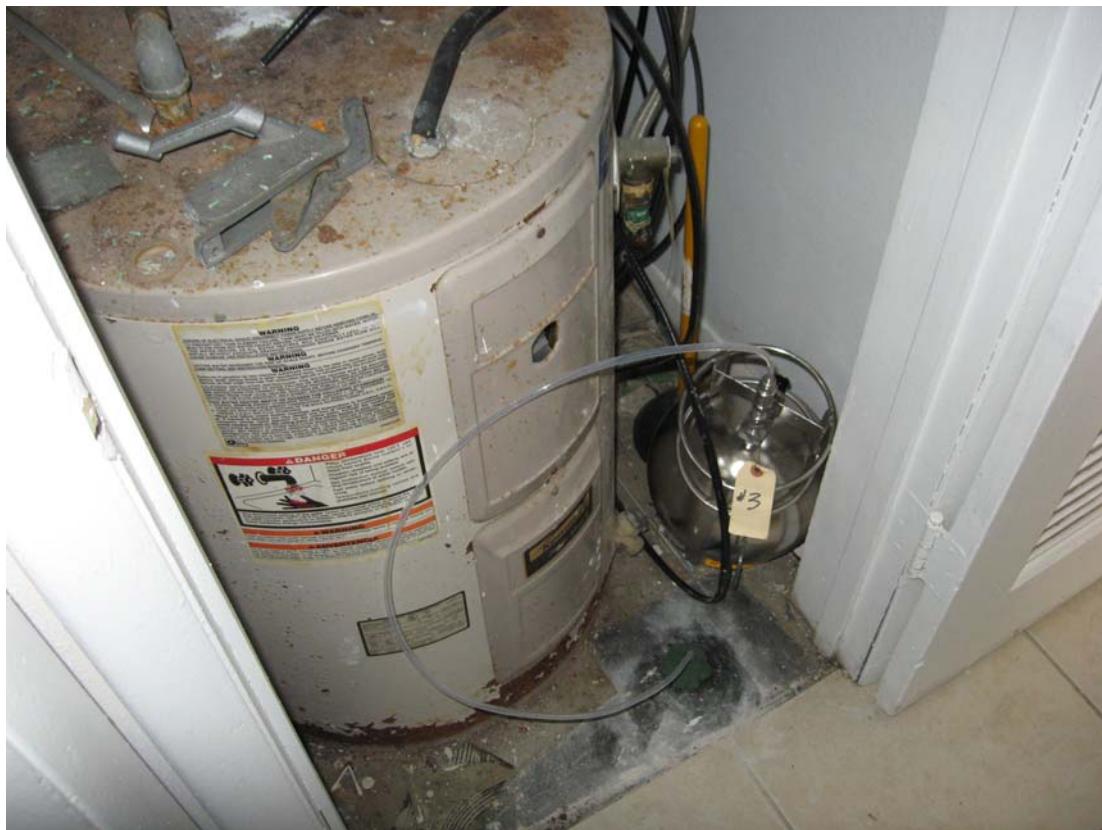


Photo 8; Sample Station WPG 7



Photo 9; Sample Station WPG 8



Photo 10; Sample Station WPG 9

APPENDIX C

SOIL GAS VOC

LABORATORY ANALYTICAL DATASHEETS

(70 Pages)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

January 13, 2012

4SESD-ASB

MEMORANDUM

SUBJECT: FINAL Analytical Report

Project: 12-0060, West Palm Beach Gasification

Superfund Remedial

FROM: Janet Muse

OCS Chemist

THRU: Sallie Hale, Chief

ASB Organic Chemistry Section

TO: Tim Slagle

This data report is being reissued. Some or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for more details.

Attached are the final results for the analytical groups listed below. These analyses were performed in accordance with the Analytical Support Branch's (ASB) Laboratory Operations and Quality Assurance Manual (ASB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the ASB LOQAM specifications and may have been qualified if the applicable quality control criteria were not met. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Volatile Organics (VOA)

Volatile organic compounds

EPA TO-15



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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Report Narrative for Project: 12-0060

1/13/12 jm - Data was rereported to include the corrected TICs for the samples.

Sample Disposal Policy

Because of the laboratory's limited space for long term sample storage, our policy is to dispose of samples on a periodic schedule. Please note that within 60 days of this memo, the original samples and all sample extracts and/or sample digestates will be disposed of in accordance with applicable regulations. The 60-day sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time if you have a special project need. If you wish for the laboratory to hold samples beyond the 60-day period, please contact our Sample Control Coordinator, Debbie Colquitt, by e-mail at Colquitt.Debbie@epa.gov, and provide a reason for holding samples beyond 60 days

cc: Nardina Turner



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SAMPLES INCLUDED IN THIS REPORT

Project: 12-0060, West Palm Beach Gasification

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
TB1	E114801-01	Trip Blank Air	11/15/11 00:00	11/21/11 14:44
TB2	E114801-02	Trip Blank Air	11/15/11 08:00	11/21/11 14:44
WPG1AANov11	E114801-03	Ambient Air	11/16/11 00:00	11/21/11 14:44
WPG2AANov11	E114801-04	Ambient Air	11/16/11 00:00	11/21/11 14:44
WPG3CANov11	E114801-05	Crawlspace Air	11/16/11 00:00	11/21/11 14:44
WPG3SCANov11	E114801-06	Crawlspace Air	11/16/11 00:00	11/21/11 14:44
WPG4SGNov11	E114801-07	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG4SSGNov11	E114801-08	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG5SGNov11	E114801-09	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG6SGNov11	E114801-10	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG7SGNov11	E114801-11	Soil Gas	11/15/11 00:00	11/21/11 14:44
WPG8SGNov11	E114801-12	Soil Gas	11/16/11 00:00	11/21/11 14:44
WPG9SGNov11	E114801-13	Soil Gas	11/16/11 00:00	11/21/11 14:44



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DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
D-2	Due to Matrix Interference, the sample cannot be accurately quantified. The reported result is estimated.
J	The identification of the analyte is acceptable; the reported value is an estimate.
N	There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.
NJ	Presumptive evidence that analyte is present; reported as a tentative identification with an estimated value.
Q-2	Result greater than MDL but less than MRL.
QC-1	Analyte concentration low in continuing calibration verification standard
QC-2	Analyte concentration high in continuing calibration verification standard
QC-4	Result greater than the highest point on the calibration curve
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-2	Laboratory Control Spike Recovery greater than method control limits
QR-2	MRL verification recovery greater than upper control limits.

ACRONYMS AND ABBREVIATIONS

CAS	Chemical Abstracts Service Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.
MDL	Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.
MRL	Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.
TIC	Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.



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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID: TB1****Lab ID: E114801-01****Station ID:****Matrix: Trip Blank Air****Date Collected: 11/15/11 0:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0	U	ug/m3	4.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	3.4	U	ug/m3	3.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-34-3	1,1-Dichloroethane	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.3	U	ug/m3	3.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.6	U	ug/m3	3.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
107-06-2	1,2-Dichloroethane	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
78-87-5	1,2-Dichloropropane	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
106-99-0	1,3-Butadiene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
106-46-7	1,4-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
123-91-1	1,4-Dioxane	4.3	U	ug/m3	4.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
107-05-1	3-Chloropropene	2.7	U	ug/m3	2.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
622-96-8	4-Ethyltoluene	4.8	U	ug/m3	4.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
67-64-1	Acetone	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
107-13-1	Acrylonitrile	0.97	U	ug/m3	0.97	11/30/11 11:55	11/30/11 22:13	EPA TO-15
71-43-2	Benzene	1.5	U	ug/m3	1.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
100-44-7	Benzyl chloride	2.4	U	ug/m3	2.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-27-4	Bromodichloromethane	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-25-2	Bromoform	34	U	ug/m3	34	11/30/11 11:55	11/30/11 22:13	EPA TO-15



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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID: TB1****Lab ID: E114801-01****Station ID:****Matrix: Trip Blank Air****Date Collected: 11/15/11 0:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-15-0	Carbon disulfide	1.5	U	ug/m3	1.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
56-23-5	Carbon Tetrachloride	2.9	U	ug/m3	2.9	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-90-7	Chlorobenzene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-00-3	Chloroethane	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
74-87-3	Chloromethane	2.4	U	ug/m3	2.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
110-82-7	Cyclohexane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
124-48-1	Dibromochloromethane	4.1	U	ug/m3	4.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
141-78-6	Ethyl Acetate	4.3	U	ug/m3	4.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
142-82-5	Heptane	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
87-68-3	Hexachlorobutadiene	4.8	U	ug/m3	4.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
110-54-3	Hexane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
26635-64-3	Isooctane	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 22:13	EPA TO-15
67-63-0	Isopropanol	1.4	U	ug/m3	1.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
78-93-3	Methyl Ethyl Ketone	1.4	U	ug/m3	1.4	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
91-20-3	Naphthalene	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
95-47-6	o-Xylene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
115-07-1	Propene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
100-42-5	Styrene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 22:13	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15



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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** TB1**Lab ID:** E114801-01**Station ID:****Matrix:** Trip Blank Air**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
109-99-9	Tetrahydrofuran	3.5	U	ug/m3	3.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-88-3	Toluene	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	11/30/11 11:55	11/30/11 22:13	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 22:13	EPA TO-15
108-05-4	Vinyl acetate	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 22:13	EPA TO-15
593-60-2	Vinyl bromide	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 22:13	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	11/30/11 11:55	11/30/11 22:13	EPA TO-15
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	20	U	ug/m3	20	11/30/11 11:55	11/30/11 22:13	EPA TO-15



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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID: TB2****Lab ID: E114801-02****Station ID:****Matrix: Trip Blank Air****Date Collected: 11/15/11 8:00**

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.1	U	ug/m3	4.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	3.5	U	ug/m3	3.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-34-3	1,1-Dichloroethane	1.9	U	ug/m3	1.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.3	U	ug/m3	3.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.6	U	ug/m3	3.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
107-06-2	1,2-Dichloroethane	1.9	U	ug/m3	1.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
78-87-5	1,2-Dichloropropane	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
106-99-0	1,3-Butadiene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
106-46-7	1,4-Dichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
123-91-1	1,4-Dioxane	4.3	U	ug/m3	4.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
107-05-1	3-Chloropropene	2.8	U	ug/m3	2.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
622-96-8	4-Ethyltoluene	4.8	U	ug/m3	4.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
67-64-1	Acetone	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
107-13-1	Acrylonitrile	0.98	U	ug/m3	0.98	11/30/11 11:55	11/30/11 23:04	EPA TO-15
71-43-2	Benzene	1.5	U	ug/m3	1.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
100-44-7	Benzyl chloride	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-27-4	Bromodichloromethane	3.2	U	ug/m3	3.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-25-2	Bromoform	34	U	ug/m3	34	11/30/11 11:55	11/30/11 23:04	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** TB2**Lab ID:** E114801-02**Station ID:****Matrix:** Trip Blank Air**Date Collected:** 11/15/11 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-15-0	Carbon disulfide	1.5	U	ug/m3	1.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
56-23-5	Carbon Tetrachloride	2.9	U	ug/m3	2.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-90-7	Chlorobenzene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-00-3	Chloroethane	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
67-66-3	Chloroform	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
74-87-3	Chloromethane	2.4	U	ug/m3	2.4	11/30/11 11:55	11/30/11 23:04	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
110-82-7	Cyclohexane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 23:04	EPA TO-15
124-48-1	Dibromochloromethane	4.1	U	ug/m3	4.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
141-78-6	Ethyl Acetate	4.3	U	ug/m3	4.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
100-41-4	Ethyl Benzene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 23:04	EPA TO-15
142-82-5	Heptane	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 23:04	EPA TO-15
87-68-3	Hexachlorobutadiene	4.9	U	ug/m3	4.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
110-54-3	Hexane	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 23:04	EPA TO-15
26635-64-3	Isooctane	2.3	U	ug/m3	2.3	11/30/11 11:55	11/30/11 23:04	EPA TO-15
67-63-0	Isopropanol	1.4	U	ug/m3	1.4	11/30/11 11:55	11/30/11 23:04	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
78-93-3	Methyl Ethyl Ketone	1.4	U	ug/m3	1.4	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-09-2	Methylene Chloride	1.6	U	ug/m3	1.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
91-20-3	Naphthalene	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
95-47-6	o-Xylene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
115-07-1	Propene	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
100-42-5	Styrene	2.0	U	ug/m3	2.0	11/30/11 11:55	11/30/11 23:04	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.1	U	ug/m3	3.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** TB2**Lab ID:** E114801-02**Station ID:****Matrix:** Trip Blank Air**Date Collected:** 11/15/11 8:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
109-99-9	Tetrahydrofuran	3.6	U	ug/m3	3.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-88-3	Toluene	1.8	U	ug/m3	1.8	11/30/11 11:55	11/30/11 23:04	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.9	U	ug/m3	1.9	11/30/11 11:55	11/30/11 23:04	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.2	U	ug/m3	2.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.5	U	ug/m3	2.5	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	2.6	U	ug/m3	2.6	11/30/11 11:55	11/30/11 23:04	EPA TO-15
108-05-4	Vinyl acetate	1.7	U	ug/m3	1.7	11/30/11 11:55	11/30/11 23:04	EPA TO-15
593-60-2	Vinyl bromide	2.1	U	ug/m3	2.1	11/30/11 11:55	11/30/11 23:04	EPA TO-15
75-01-4	Vinyl chloride	1.2	U	ug/m3	1.2	11/30/11 11:55	11/30/11 23:04	EPA TO-15
Tentatively Identified Compounds:								
R4-0000	Tentatively Identified Compounds	20	U	ug/m3	20	11/30/11 11:55	11/30/11 23:04	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG1AANov11**Lab ID:** E114801-03**Station ID:** WPG1**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.58	J, Q-2	ug/m3	3.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-34-3	1,1-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.7	U	ug/m3	3.7	11/30/11 11:55	12/13/11 20:58	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
95-50-1	1,2-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
78-87-5	1,2-Dichloropropane	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
106-99-0	1,3-Butadiene	2.3	U, J, QC-1, QL-1	ug/m3	2.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
541-73-1	1,3-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.2	U	ug/m3	3.2	11/30/11 11:55	12/13/11 20:58	EPA TO-15
123-91-1	1,4-Dioxane	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
107-05-1	3-Chloropropene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
622-96-8	4-Ethyltoluene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
67-64-1	Acetone	5.3		ug/m3	2.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
107-13-1	Acrylonitrile	1.1	U	ug/m3	1.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
71-43-2	Benzene	0.19	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/13/11 20:58	EPA TO-15
100-44-7	Benzyl chloride	2.7	U	ug/m3	2.7	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-27-4	Bromodichloromethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-25-2	Bromoform	38	U	ug/m3	38	11/30/11 11:55	12/13/11 20:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG1AANov11**Lab ID:** E114801-03**Station ID:** WPG1**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U, J, QC-1, QL-1	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-15-0	Carbon disulfide	1.6	U	ug/m3	1.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
56-23-5	Carbon Tetrachloride	0.48	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-90-7	Chlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-00-3	Chloroethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
74-87-3	Chloromethane	1.3	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/13/11 20:58	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
110-82-7	Cyclohexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
124-48-1	Dibromochloromethane	4.6	U	ug/m3	4.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.6		ug/m3	2.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
141-78-6	Ethyl Acetate	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
142-82-5	Heptane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 20:58	EPA TO-15
87-68-3	Hexachlorobutadiene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
110-54-3	Hexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
26635-64-3	Isooctane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
67-63-0	Isopropanol	1.6	U	ug/m3	1.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
78-93-3	Methyl Ethyl Ketone	0.66	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-09-2	Methylene Chloride	0.16	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
91-20-3	Naphthalene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
115-07-1	Propene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
100-42-5	Styrene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 20:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG1AANov11**Lab ID:** E114801-03**Station ID:** WPG1**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
109-99-9	Tetrahydrofuran	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-88-3	Toluene	0.32	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/13/11 20:58	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 20:58	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 20:58	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.4	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
108-05-4	Vinyl acetate	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 20:58	EPA TO-15
593-60-2	Vinyl bromide	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 20:58	EPA TO-15
75-01-4	Vinyl chloride	1.3	U, J, QC-1, QL-1	ug/m3	1.3	11/30/11 11:55	12/13/11 20:58	EPA TO-15
Tentatively Identified Compounds:								
R4-6501	Unidentified Compound(s)	100	J	ug/m3		11/30/11 11:55	12/13/11 20:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG2AANov11**Lab ID:** E114801-04**Station ID:** WPG2**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.50	J, Q-2	ug/m3	3.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-34-3	1,1-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.7	U	ug/m3	3.7	11/30/11 11:55	12/13/11 22:37	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
95-50-1	1,2-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
78-87-5	1,2-Dichloropropane	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
106-99-0	1,3-Butadiene	2.3	U, J, QC-1, QL-1	ug/m3	2.3	11/30/11 11:55	12/13/11 22:37	EPA TO-15
541-73-1	1,3-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
123-91-1	1,4-Dioxane	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
107-05-1	3-Chloropropene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
622-96-8	4-Ethyltoluene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
67-64-1	Acetone	4.9		ug/m3	2.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
107-13-1	Acrylonitrile	1.1	U	ug/m3	1.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
71-43-2	Benzene	0.16	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/13/11 22:37	EPA TO-15
100-44-7	Benzyl chloride	2.7	U	ug/m3	2.7	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-27-4	Bromodichloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-25-2	Bromoform	38	U	ug/m3	38	11/30/11 11:55	12/13/11 22:37	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG2AANov11**Lab ID:** E114801-04**Station ID:** WPG2**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U, J, QL-1, QC-1	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-15-0	Carbon disulfide	0.11	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
56-23-5	Carbon Tetrachloride	0.42	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-90-7	Chlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-00-3	Chloroethane	3.4	U	ug/m3	3.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
74-87-3	Chloromethane	1.3	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 22:37	EPA TO-15
110-82-7	Cyclohexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
124-48-1	Dibromochloromethane	4.6	U	ug/m3	4.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.5		ug/m3	2.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
141-78-6	Ethyl Acetate	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
100-41-4	Ethyl Benzene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 22:37	EPA TO-15
142-82-5	Heptane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 22:37	EPA TO-15
87-68-3	Hexachlorobutadiene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
110-54-3	Hexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
26635-64-3	Isooctane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
67-63-0	Isopropanol	1.6	U	ug/m3	1.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
78-93-3	Methyl Ethyl Ketone	0.74	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-09-2	Methylene Chloride	0.16	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/13/11 22:37	EPA TO-15
91-20-3	Naphthalene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 22:37	EPA TO-15
115-07-1	Propene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
100-42-5	Styrene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 22:37	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG2AANov11**Lab ID:** E114801-04**Station ID:** WPG2**Matrix:** Ambient Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
109-99-9	Tetrahydrofuran	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-88-3	Toluene	0.37	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/13/11 22:37	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 22:37	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 22:37	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.5	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
108-05-4	Vinyl acetate	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 22:37	EPA TO-15
593-60-2	Vinyl bromide	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 22:37	EPA TO-15
75-01-4	Vinyl chloride	1.3	U, J, QL-1, QC-1	ug/m3	1.3	11/30/11 11:55	12/13/11 22:37	EPA TO-15
Tentatively Identified Compounds:								
R4-7505	Acetaldehyde (TIC)	30	NJ	ug/m3		11/30/11 11:55	12/13/11 22:37	EPA TO-15



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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3CANov11**Lab ID:** E114801-05**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.61	J, Q-2	ug/m3	3.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-34-3	1,1-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.7	U	ug/m3	3.7	11/30/11 11:55	12/13/11 23:27	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
95-50-1	1,2-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
78-87-5	1,2-Dichloropropane	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
106-99-0	1,3-Butadiene	2.3	U, J, QC-1, QL-1	ug/m3	2.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
541-73-1	1,3-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.2	U	ug/m3	3.2	11/30/11 11:55	12/13/11 23:27	EPA TO-15
123-91-1	1,4-Dioxane	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
107-05-1	3-Chloropropene	0.40	J, Q-2	ug/m3	3.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
622-96-8	4-Ethyltoluene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
67-64-1	Acetone	8.5		ug/m3	2.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
107-13-1	Acrylonitrile	1.1	U	ug/m3	1.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
71-43-2	Benzene	0.21	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/13/11 23:27	EPA TO-15
100-44-7	Benzyl chloride	2.7	U	ug/m3	2.7	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-27-4	Bromodichloromethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-25-2	Bromoform	38	U	ug/m3	38	11/30/11 11:55	12/13/11 23:27	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3CANov11**Lab ID:** E114801-05**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U, J, QC-1, QL-1	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-15-0	Carbon disulfide	0.13	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
56-23-5	Carbon Tetrachloride	0.48	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-90-7	Chlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-00-3	Chloroethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
74-87-3	Chloromethane	1.5	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/13/11 23:27	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
110-82-7	Cyclohexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
124-48-1	Dibromochloromethane	4.6	U	ug/m3	4.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.8		ug/m3	2.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
141-78-6	Ethyl Acetate	4.8	U	ug/m3	4.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
142-82-5	Heptane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 23:27	EPA TO-15
87-68-3	Hexachlorobutadiene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
110-54-3	Hexane	0.16	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
26635-64-3	Isooctane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
67-63-0	Isopropanol	1.6	U	ug/m3	1.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
591-78-6	Methyl Butyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
78-93-3	Methyl Ethyl Ketone	0.93	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-09-2	Methylene Chloride	0.19	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
91-20-3	Naphthalene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
115-07-1	Propene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
100-42-5	Styrene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/13/11 23:27	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3CANov11**Lab ID:** E114801-05**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
109-99-9	Tetrahydrofuran	4.0	U	ug/m3	4.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-88-3	Toluene	0.43	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/13/11 23:27	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/13/11 23:27	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/13/11 23:27	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.6	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
108-05-4	Vinyl acetate	1.9	U	ug/m3	1.9	11/30/11 11:55	12/13/11 23:27	EPA TO-15
593-60-2	Vinyl bromide	2.4	U	ug/m3	2.4	11/30/11 11:55	12/13/11 23:27	EPA TO-15
75-01-4	Vinyl chloride	1.3	U, J, QC-1, QL-1	ug/m3	1.3	11/30/11 11:55	12/13/11 23:27	EPA TO-15
Tentatively Identified Compounds:								
R4-7502	Butane (TIC)	50	NJ	ug/m3		11/30/11 11:55	12/13/11 23:27	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3SCANov11**Lab ID:** E114801-06**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.5	U	ug/m3	4.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.48	J, Q-2	ug/m3	3.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-34-3	1,1-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 0:18	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	4.0	U	ug/m3	4.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
95-50-1	1,2-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
107-06-2	1,2-Dichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
78-87-5	1,2-Dichloropropane	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
106-99-0	1,3-Butadiene	2.4	U, J, QC-1, QL-1	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
541-73-1	1,3-Dichlorobenzene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.2	U	ug/m3	3.2	11/30/11 11:55	12/14/11 0:18	EPA TO-15
123-91-1	1,4-Dioxane	4.8	U	ug/m3	4.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
107-05-1	3-Chloropropene	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
622-96-8	4-Ethyltoluene	5.4	U	ug/m3	5.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
67-64-1	Acetone	14		ug/m3	2.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
107-13-1	Acrylonitrile	1.1	U	ug/m3	1.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
71-43-2	Benzene	0.13	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 0:18	EPA TO-15
100-44-7	Benzyl chloride	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-27-4	Bromodichloromethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-25-2	Bromoform	38	U	ug/m3	38	11/30/11 11:55	12/14/11 0:18	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3SCANov11**Lab ID:** E114801-06**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	2.0	U, J, QC-1, QL-1	ug/m3	2.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-15-0	Carbon disulfide	0.86	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 0:18	EPA TO-15
56-23-5	Carbon Tetrachloride	0.48	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-90-7	Chlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-00-3	Chloroethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
67-66-3	Chloroform	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
74-87-3	Chloromethane	1.9	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/14/11 0:18	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
110-82-7	Cyclohexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
124-48-1	Dibromochloromethane	4.6	U	ug/m3	4.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.5	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
141-78-6	Ethyl Acetate	4.8	U	ug/m3	4.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
100-41-4	Ethyl Benzene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/14/11 0:18	EPA TO-15
142-82-5	Heptane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 0:18	EPA TO-15
87-68-3	Hexachlorobutadiene	5.5	U	ug/m3	5.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
110-54-3	Hexane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
26635-64-3	Isooctane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
67-63-0	Isopropanol	1.3	J, QC-2, QL-2, QR-2, Q-2	ug/m3	1.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
591-78-6	Methyl Butyl Ketone	0.35	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
78-93-3	Methyl Ethyl Ketone	1.6		ug/m3	1.6	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-09-2	Methylene Chloride	0.16	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
91-20-3	Naphthalene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
95-47-6	o-Xylene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/14/11 0:18	EPA TO-15
115-07-1	Propene	1.1	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
100-42-5	Styrene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 0:18	EPA TO-15



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Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG3SCANov11**Lab ID:** E114801-06**Station ID:** WPG3**Matrix:** Crawlspace Air**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
109-99-9	Tetrahydrofuran	4.0	U	ug/m3	4.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-88-3	Toluene	0.43	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/14/11 0:18	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 0:18	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 0:18	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.4	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
108-05-4	Vinyl acetate	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 0:18	EPA TO-15
593-60-2	Vinyl bromide	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 0:18	EPA TO-15
75-01-4	Vinyl chloride	1.3	U, J, QC-1, QL-1	ug/m3	1.3	11/30/11 11:55	12/14/11 0:18	EPA TO-15
Tentatively Identified Compounds:								
R4-7505	Acetaldehyde (TIC)	40	NJ	ug/m3		11/30/11 11:55	12/14/11 0:18	EPA TO-15
R4-7502	Butane (TIC)	30	NJ	ug/m3		11/30/11 11:55	12/14/11 0:18	EPA TO-15



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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SGNov11**Lab ID:** E114801-07**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.35	J, Q-2	ug/m3	3.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.59	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.18	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 1:07	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 1:07	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
106-46-7	1,4-Dichlorobenzene	0.57	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
123-91-1	1,4-Dioxane	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
622-96-8	4-Ethyltoluene	4.1	U	ug/m3	4.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
67-64-1	Acetone	32		ug/m3	11	11/30/11 11:55	12/01/11 23:36	EPA TO-15
107-13-1	Acrylonitrile	0.18	J, Q-2	ug/m3	0.84	11/30/11 11:55	12/14/11 1:07	EPA TO-15
71-43-2	Benzene	2.5		ug/m3	1.3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-27-4	Bromodichloromethane	0.78	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-25-2	Bromoform	29	U	ug/m3	29	11/30/11 11:55	12/14/11 1:07	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SGNov11**Lab ID:** E114801-07**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-15-0	Carbon disulfide	5.8		ug/m3	1.3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
56-23-5	Carbon Tetrachloride	0.24	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-90-7	Chlorobenzene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-00-3	Chloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
67-66-3	Chloroform	8.6		ug/m3	1.9	11/30/11 11:55	12/14/11 1:07	EPA TO-15
74-87-3	Chloromethane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
110-82-7	Cyclohexane	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.9		ug/m3	2.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15
141-78-6	Ethyl Acetate	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
100-41-4	Ethyl Benzene	0.31	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
142-82-5	Heptane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
87-68-3	Hexachlorobutadiene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
110-54-3	Hexane	0.63	J, Q-2	ug/m3	1.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15
67-63-0	Isopropanol	7.2	J, QL-2, QC-2	ug/m3	1.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
591-78-6	Methyl Butyl Ketone	14		ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
78-93-3	Methyl Ethyl Ketone	4.8		ug/m3	1.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.6	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-09-2	Methylene Chloride	1.3	U	ug/m3	1.3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
91-20-3	Naphthalene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
95-47-6	o-Xylene	0.16	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
115-07-1	Propene	3.6		ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
100-42-5	Styrene	0.18	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15



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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SGNov11**Lab ID:** E114801-07**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethylene (Tetrachloroethylene)	2.0	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/14/11 1:07	EPA TO-15
109-99-9	Tetrahydrofuran	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-88-3	Toluene	1.1	J, Q-2	ug/m3	1.5	11/30/11 11:55	12/14/11 1:07	EPA TO-15
156-60-5	trans-1,2-Dichloroethylene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:07	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 1:07	EPA TO-15
79-01-6	Trichloroethylene (Trichloroethylene)	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	4.3		ug/m3	2.2	11/30/11 11:55	12/14/11 1:07	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 1:07	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:07	EPA TO-15
75-01-4	Vinyl chloride	1.0	U, J, QC-1, QL-1	ug/m3	1.0	11/30/11 11:55	12/14/11 1:07	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	200	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-7502	Butane (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-7531	Butanol (TIC)	400	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-7501	Methylpropene (TIC)	40	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15
R4-7509	Pentane (TIC)	20	NJ	ug/m3	11/30/11 11:55	12/14/11 1:07	EPA TO-15



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SSGNov11**Lab ID:** E114801-08**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.32	J, Q-2	ug/m3	3.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.58	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 1:58	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.20	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.0	U	ug/m3	3.0	11/30/11 11:55	12/14/11 1:58	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
106-46-7	1,4-Dichlorobenzene	0.54	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
123-91-1	1,4-Dioxane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
107-05-1	3-Chloropropene	2.3	U	ug/m3	2.3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
622-96-8	4-Ethyltoluene	4.1	U	ug/m3	4.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
67-64-1	Acetone	35		ug/m3	11	11/30/11 11:55	12/02/11 0:24	EPA TO-15
107-13-1	Acrylonitrile	0.18	J, Q-2	ug/m3	0.83	11/30/11 11:55	12/14/11 1:58	EPA TO-15
71-43-2	Benzene	2.3		ug/m3	1.3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-27-4	Bromodichloromethane	0.72	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-25-2	Bromoform	29	U	ug/m3	29	11/30/11 11:55	12/14/11 1:58	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SSGNov11**Lab ID:** E114801-08**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-15-0	Carbon disulfide	5.9		ug/m3	1.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
56-23-5	Carbon Tetrachloride	0.28	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-90-7	Chlorobenzene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-00-3	Chloroethane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
67-66-3	Chloroform	8.2		ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
74-87-3	Chloromethane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 1:58	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
110-82-7	Cyclohexane	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.9		ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
141-78-6	Ethyl Acetate	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
100-41-4	Ethyl Benzene	0.32	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
142-82-5	Heptane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
87-68-3	Hexachlorobutadiene	4.1	U	ug/m3	4.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
110-54-3	Hexane	0.50	J, Q-2	ug/m3	1.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 1:58	EPA TO-15
67-63-0	Isopropanol	7.3	J, QC-2, QL-2	ug/m3	1.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
591-78-6	Methyl Butyl Ketone	15		ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
78-93-3	Methyl Ethyl Ketone	5.2		ug/m3	1.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.6	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-09-2	Methylene Chloride	1.3	U	ug/m3	1.3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
91-20-3	Naphthalene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
95-47-6	o-Xylene	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15
115-07-1	Propene	3.8		ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
100-42-5	Styrene	0.16	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 1:58	EPA TO-15



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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG4SSGNov11**Lab ID:** E114801-08**Station ID:** WPG4**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	1.9	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
109-99-9	Tetrahydrofuran	0.10	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-88-3	Toluene	1.1	J, Q-2	ug/m3	1.5	11/30/11 11:55	12/14/11 1:58	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 1:58	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 1:58	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	4.1		ug/m3	2.2	11/30/11 11:55	12/14/11 1:58	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 1:58	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 1:58	EPA TO-15
75-01-4	Vinyl chloride	0.99	U, J, QC-1, QL-1	ug/m3	0.99	11/30/11 11:55	12/14/11 1:58	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
R4-7502	Butane (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
R4-7531	Butanol (TIC)	400	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	90	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15
R4-7507	Ethanol (TIC)	20	NJ	ug/m3	11/30/11 11:55	12/14/11 1:58	EPA TO-15



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG5SGNov11**Lab ID:** E114801-09**Station ID:** WPG5**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.49	J, Q-2	ug/m3	3.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.55	J, Q-2	ug/m3	2.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.26	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
106-46-7	1,4-Dichlorobenzene	3.8		ug/m3	2.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
123-91-1	1,4-Dioxane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
622-96-8	4-Ethyltoluene	4.1	U	ug/m3	4.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
67-64-1	Acetone	40		ug/m3	11	11/30/11 11:55	12/02/11 1:12	EPA TO-15
107-13-1	Acrylonitrile	0.14	J, Q-2	ug/m3	0.83	11/30/11 11:55	12/14/11 2:48	EPA TO-15
71-43-2	Benzene	1.1	J, Q-2	ug/m3	1.3	11/30/11 11:55	12/14/11 2:48	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-27-4	Bromodichloromethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-25-2	Bromoform	29	U	ug/m3	29	11/30/11 11:55	12/14/11 2:48	EPA TO-15



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG5SGNov11**Lab ID:** E114801-09**Station ID:** WPG5**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-15-0	Carbon disulfide	2.1		ug/m3	1.3	11/30/11 11:55	12/14/11 2:48	EPA TO-15
56-23-5	Carbon Tetrachloride	0.26	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-90-7	Chlorobenzene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-00-3	Chloroethane	2.6	U	ug/m3	2.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
67-66-3	Chloroform	1.3	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
74-87-3	Chloromethane	0.22	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/14/11 2:48	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
110-82-7	Cyclohexane	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.7		ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
141-78-6	Ethyl Acetate	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
100-41-4	Ethyl Benzene	0.36	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
142-82-5	Heptane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
87-68-3	Hexachlorobutadiene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
110-54-3	Hexane	0.45	J, Q-2	ug/m3	1.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 2:48	EPA TO-15
67-63-0	Isopropanol	17	J, QC-2, QL-2	ug/m3	1.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
591-78-6	Methyl Butyl Ketone	4.2		ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
78-93-3	Methyl Ethyl Ketone	8.4		ug/m3	1.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	0.65	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-09-2	Methylene Chloride	1.3	U	ug/m3	1.3	11/30/11 11:55	12/14/11 2:48	EPA TO-15
91-20-3	Naphthalene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
95-47-6	o-Xylene	0.22	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
115-07-1	Propene	4.6		ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
100-42-5	Styrene	0.18	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15



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Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG5SGNov11**Lab ID:** E114801-09**Station ID:** WPG5**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	9.8		ug/m3	2.7	11/30/11 11:55	12/14/11 2:48	EPA TO-15
109-99-9	Tetrahydrofuran	3.0	U	ug/m3	3.0	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-88-3	Toluene	2.0		ug/m3	1.5	11/30/11 11:55	12/14/11 2:48	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 2:48	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 2:48	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.5	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 2:48	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 2:48	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 2:48	EPA TO-15
75-01-4	Vinyl chloride	0.99	U, J, QC-1, QL-1	ug/m3	0.99	11/30/11 11:55	12/14/11 2:48	EPA TO-15
Tentatively Identified Compounds:								
R4-7502	Butane (TIC)	20	NJ	ug/m3		11/30/11 11:55	12/14/11 2:48	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	90	NJ	ug/m3		11/30/11 11:55	12/14/11 2:48	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG6SGNov11**Lab ID:** E114801-10**Station ID:** WPG6**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	4.0		ug/m3	3.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
71-55-6	1,1,1-Trichloroethane	0.22	J, Q-2	ug/m3	2.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.58	J, Q-2	ug/m3	3.1	11/30/11 11:55	12/14/11 3:38	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.3	U	ug/m3	2.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-34-3	1,1-Dichloroethane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	0.32	J, Q-2	ug/m3	1.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	3.0	U	ug/m3	3.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	3.8		ug/m3	2.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.3	U	ug/m3	3.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
107-06-2	1,2-Dichloroethane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
78-87-5	1,2-Dichloropropane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	2.0		ug/m3	2.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
106-99-0	1,3-Butadiene	1.9	U, J, QC-1, QL-1	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
106-46-7	1,4-Dichlorobenzene	2.1	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
123-91-1	1,4-Dioxane	3.9	U	ug/m3	3.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
107-05-1	3-Chloropropene	2.5	U	ug/m3	2.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
622-96-8	4-Ethyltoluene	4.4	U	ug/m3	4.4	11/30/11 11:55	12/14/11 3:38	EPA TO-15
67-64-1	Acetone	48		ug/m3	12	11/30/11 11:55	12/02/11 2:00	EPA TO-15
107-13-1	Acrylonitrile	0.17	J, Q-2	ug/m3	0.88	11/30/11 11:55	12/14/11 3:38	EPA TO-15
71-43-2	Benzene	4.0		ug/m3	1.4	11/30/11 11:55	12/14/11 3:38	EPA TO-15
100-44-7	Benzyl chloride	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-27-4	Bromodichloromethane	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-25-2	Bromoform	31	U	ug/m3	31	11/30/11 11:55	12/14/11 3:38	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG6SGNov11**Lab ID:** E114801-10**Station ID:** WPG6**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.6	U, J, QC-1, QL-1	ug/m3	1.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-15-0	Carbon disulfide	3.3		ug/m3	1.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
56-23-5	Carbon Tetrachloride	0.84	J, Q-2	ug/m3	2.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-90-7	Chlorobenzene	0.19	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-00-3	Chloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15
67-66-3	Chloroform	38		ug/m3	2.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
74-87-3	Chloromethane	0.28	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 3:38	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
110-82-7	Cyclohexane	5.7		ug/m3	1.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
124-48-1	Dibromochloromethane	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.8		ug/m3	2.1	11/30/11 11:55	12/14/11 3:38	EPA TO-15
141-78-6	Ethyl Acetate	3.9	U	ug/m3	3.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
100-41-4	Ethyl Benzene	1.7	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15
142-82-5	Heptane	5.3		ug/m3	1.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15
87-68-3	Hexachlorobutadiene	4.4	U	ug/m3	4.4	11/30/11 11:55	12/14/11 3:38	EPA TO-15
110-54-3	Hexane	1.1	J, Q-2	ug/m3	1.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
26635-64-3	Isooctane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 3:38	EPA TO-15
67-63-0	Isopropanol	1.7	J, QC-2, QL-2, QR-2	ug/m3	1.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
591-78-6	Methyl Butyl Ketone	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
78-93-3	Methyl Ethyl Ketone	10		ug/m3	1.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-09-2	Methylene Chloride	0.19	J, Q-2	ug/m3	1.4	11/30/11 11:55	12/14/11 3:38	EPA TO-15
91-20-3	Naphthalene	33		ug/m3	12	11/30/11 11:55	12/02/11 2:00	EPA TO-15
95-47-6	o-Xylene	2.1		ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
115-07-1	Propene	7.8		ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
100-42-5	Styrene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG6SGNov11**Lab ID:** E114801-10**Station ID:** WPG6**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	4.2		ug/m3	2.8	11/30/11 11:55	12/14/11 3:38	EPA TO-15
109-99-9	Tetrahydrofuran	0.13	J, Q-2	ug/m3	3.2	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-88-3	Toluene	18		ug/m3	1.6	11/30/11 11:55	12/14/11 3:38	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 3:38	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 3:38	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	7.8		ug/m3	2.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	2.2	J, Q-2	ug/m3	2.3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
108-05-4	Vinyl acetate	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 3:38	EPA TO-15
593-60-2	Vinyl bromide	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 3:38	EPA TO-15
75-01-4	Vinyl chloride	1.1	U, J, QC-1, QL-1	ug/m3	1.1	11/30/11 11:55	12/14/11 3:38	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	900	NJ	ug/m3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
R4-7502	Butane (TIC)	200	NJ	ug/m3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	70	NJ	ug/m3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
R4-7509	Pentane (TIC)	50	NJ	ug/m3	11/30/11 11:55	12/14/11 3:38	EPA TO-15
R4-6500	Petroleum Product:		N		11:55	12/14/11 3:38	EPA TO-15



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Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG7SGNov11**Lab ID:** E114801-11**Station ID:** WPG7**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.81	J, Q-2	ug/m3	3.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
71-55-6	1,1,1-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.69	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.77	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 4:28	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 4:28	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
78-87-5	1,2-Dichloropropane	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	0.27	J, Q-2	ug/m3	2.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 4:28	EPA TO-15
106-46-7	1,4-Dichlorobenzene	0.33	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
123-91-1	1,4-Dioxane	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 4:28	EPA TO-15
622-96-8	4-Ethyltoluene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
67-64-1	Acetone	37		ug/m3	11	11/30/11 11:55	12/02/11 2:49	EPA TO-15
107-13-1	Acrylonitrile	0.19	J, Q-2	ug/m3	0.85	11/30/11 11:55	12/14/11 4:28	EPA TO-15
71-43-2	Benzene	1.3		ug/m3	1.3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-27-4	Bromodichloromethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-25-2	Bromoform	30	U	ug/m3	30	11/30/11 11:55	12/14/11 4:28	EPA TO-15



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG7SGNov11**Lab ID:** E114801-11**Station ID:** WPG7**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-15-0	Carbon disulfide	2.8		ug/m3	1.3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
56-23-5	Carbon Tetrachloride	0.29	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-90-7	Chlorobenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-00-3	Chloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
67-66-3	Chloroform	4.7		ug/m3	2.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
74-87-3	Chloromethane	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 4:28	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
110-82-7	Cyclohexane	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
124-48-1	Dibromochloromethane	3.6	U	ug/m3	3.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	3.3		ug/m3	2.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
141-78-6	Ethyl Acetate	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
100-41-4	Ethyl Benzene	0.46	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
142-82-5	Heptane	1.7	U	ug/m3	1.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
87-68-3	Hexachlorobutadiene	4.3	U	ug/m3	4.3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
110-54-3	Hexane	0.40	J, Q-2	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15
67-63-0	Isopropanol	13	J, QC-2, QL-2	ug/m3	1.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
591-78-6	Methyl Butyl Ketone	0.73	J, D-2, Q-2	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
78-93-3	Methyl Ethyl Ketone	6.6		ug/m3	1.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 4:28	EPA TO-15
91-20-3	Naphthalene	3.0	J, QC-2, QL-2, QR-2	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
95-47-6	o-Xylene	0.46	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 4:28	EPA TO-15
115-07-1	Propene	14		ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
100-42-5	Styrene	0.21	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG7SGNov11**Lab ID:** E114801-11**Station ID:** WPG7**Matrix:** Soil Gas**Date Collected:** 11/15/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	63		ug/m3	2.7	11/30/11 11:55	12/14/11 4:28	EPA TO-15
109-99-9	Tetrahydrofuran	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-88-3	Toluene	2.0		ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 4:28	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	0.29	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.6	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 4:28	EPA TO-15
108-05-4	Vinyl acetate	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 4:28	EPA TO-15
593-60-2	Vinyl bromide	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 4:28	EPA TO-15
75-01-4	Vinyl chloride	1.0	U, J, QC-1, QL-1	ug/m3	1.0	11/30/11 11:55	12/14/11 4:28	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
R4-7502	Butane (TIC)	600	NJ	ug/m3	11/30/11 11:55	12/14/11 4:28	EPA TO-15
R4-8000122	Dichlorofluoroethane (TIC)	100	NJ	ug/m3	11/30/11 11:55	12/14/11 4:28	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG8SGNov11**Lab ID:** E114801-12**Station ID:** WPG8**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	0.66	J, Q-2	ug/m3	3.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
71-55-6	1,1,1-Trichloroethane	0.25	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.8	U	ug/m3	2.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.64	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.9	U	ug/m3	2.9	11/30/11 11:55	12/14/11 5:17	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	0.35	J, Q-2	ug/m3	2.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/14/11 5:17	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 5:17	EPA TO-15
106-99-0	1,3-Butadiene	1.8	U, J, QC-1, QL-1	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
106-46-7	1,4-Dichlorobenzene	0.43	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
123-91-1	1,4-Dioxane	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
622-96-8	4-Ethyltoluene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
67-64-1	Acetone	170	J, QC-4	ug/m3	11	11/30/11 11:55	12/02/11 3:37	EPA TO-15
107-13-1	Acrylonitrile	0.21	J, Q-2	ug/m3	0.84	11/30/11 11:55	12/14/11 5:17	EPA TO-15
71-43-2	Benzene	1.4		ug/m3	1.3	11/30/11 11:55	12/14/11 5:17	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-27-4	Bromodichloromethane	0.33	J, Q-2	ug/m3	2.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-25-2	Bromoform	30	U	ug/m3	30	11/30/11 11:55	12/14/11 5:17	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG8SGNov11**Lab ID:** E114801-12**Station ID:** WPG8**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1, QL-1	ug/m3	1.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-15-0	Carbon disulfide	2.1		ug/m3	1.3	11/30/11 11:55	12/14/11 5:17	EPA TO-15
56-23-5	Carbon Tetrachloride	0.39	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-90-7	Chlorobenzene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-00-3	Chloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
67-66-3	Chloroform	12		ug/m3	1.9	11/30/11 11:55	12/14/11 5:17	EPA TO-15
74-87-3	Chloromethane	0.62	J, Q-2	ug/m3	2.1	11/30/11 11:55	12/14/11 5:17	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
110-82-7	Cyclohexane	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.8		ug/m3	2.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
141-78-6	Ethyl Acetate	3.7	U	ug/m3	3.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
100-41-4	Ethyl Benzene	0.41	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
142-82-5	Heptane	7.5		ug/m3	1.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
87-68-3	Hexachlorobutadiene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
110-54-3	Hexane	2.7		ug/m3	1.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
67-63-0	Isopropanol	520		ug/m3	190	11/30/11 11:55	12/01/11 6:16	EPA TO-15
591-78-6	Methyl Butyl Ketone	3.2	J, D-2	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
78-93-3	Methyl Ethyl Ketone	23		ug/m3	1.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.5	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
91-20-3	Naphthalene	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
95-47-6	o-Xylene	0.41	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
115-07-1	Propene	9.2		ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
100-42-5	Styrene	0.29	J, Q-2	ug/m3	1.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG8SGNov11**Lab ID:** E114801-12**Station ID:** WPG8**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
127-18-4	Tetrachloroethene (Tetrachloroethylene)	2.9		ug/m3	2.7	11/30/11 11:55	12/14/11 5:17	EPA TO-15
109-99-9	Tetrahydrofuran	0.16	J, Q-2	ug/m3	3.1	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-88-3	Toluene	2.2		ug/m3	1.5	11/30/11 11:55	12/14/11 5:17	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/14/11 5:17	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/14/11 5:17	EPA TO-15
79-01-6	Trichloroethene (Trichloroethylene)	2.2	U	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.4	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/14/11 5:17	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/14/11 5:17	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 5:17	EPA TO-15
75-01-4	Vinyl chloride	1.0	U, J, QC-1, QL-1	ug/m3	1.0	11/30/11 11:55	12/14/11 5:17	EPA TO-15
Tentatively Identified Compounds:								
R4-6500	Petroleum Product:		N			11:55 11:55	12/02/11 3:37	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG9SGNov11**Lab ID:** E114801-13**Station ID:** WPG9**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
R4-7156	(m- and/or p-)Xylene	2.4	J, Q-2	ug/m3	3.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
71-55-6	1,1,1-Trichloroethane	0.18	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
79-34-5	1,1,2,2-Tetrachloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.41	J, Q-2	ug/m3	3.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15
79-00-5	1,1,2-Trichloroethane	2.2	U	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-34-3	1,1-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-35-4	1,1-Dichloroethene (1,1-Dichloroethylene)	1.5	U	ug/m3	1.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
120-82-1	1,2,4-Trichlorobenzene	2.8	U	ug/m3	2.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
95-63-6	1,2,4-Trimethylbenzene	3.3		ug/m3	1.9	11/30/11 11:55	12/08/11 17:30	EPA TO-15
106-93-4	1,2-Dibromoethane (EDB)	3.1	U	ug/m3	3.1	11/30/11 11:55	12/08/11 17:30	EPA TO-15
95-50-1	1,2-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
107-06-2	1,2-Dichloroethane	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
78-87-5	1,2-Dichloropropane	1.8	U	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	2.7	U	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-67-8	1,3,5-Trimethylbenzene	0.27	J, Q-2	ug/m3	1.9	11/30/11 11:55	12/08/11 17:30	EPA TO-15
106-99-0	1,3-Butadiene	3.3		ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
541-73-1	1,3-Dichlorobenzene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
106-46-7	1,4-Dichlorobenzene	1.1	J, Q-2	ug/m3	2.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
123-91-1	1,4-Dioxane	0.55	J, Q-2	ug/m3	3.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
107-05-1	3-Chloropropene	2.4	U	ug/m3	2.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
622-96-8	4-Ethyltoluene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
67-64-1	Acetone	230	J, QC-4	ug/m3	11	11/30/11 11:55	12/02/11 4:25	EPA TO-15
107-13-1	Acrylonitrile	0.70	J, Q-2	ug/m3	0.84	11/30/11 11:55	12/08/11 17:30	EPA TO-15
71-43-2	Benzene	4.9		ug/m3	1.3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
100-44-7	Benzyl chloride	2.1	U	ug/m3	2.1	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-27-4	Bromodichloromethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-25-2	Bromoform	29	U	ug/m3	29	11/30/11 11:55	12/08/11 17:30	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG9SGNov11**Lab ID:** E114801-13**Station ID:** WPG9**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
74-83-9	Bromomethane	1.5	U, J, QC-1	ug/m3	1.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-15-0	Carbon disulfide	3.1		ug/m3	1.3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
56-23-5	Carbon Tetrachloride	0.35	J, Q-2	ug/m3	2.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-90-7	Chlorobenzene	0.35	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-00-3	Chloroethane	2.7	U	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
67-66-3	Chloroform	3.1		ug/m3	1.9	11/30/11 11:55	12/08/11 17:30	EPA TO-15
74-87-3	Chloromethane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15
156-59-2	cis-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
10061-01-5	cis-1,3-Dichloropropene	1.8	U	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
110-82-7	Cyclohexane	41		ug/m3	1.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
124-48-1	Dibromochloromethane	3.5	U	ug/m3	3.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-71-8	Dichlorodifluoromethane (Freon 12)	2.4		ug/m3	2.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15
141-78-6	Ethyl Acetate	3.7	U	ug/m3	3.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
100-41-4	Ethyl Benzene	2.9		ug/m3	1.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
142-82-5	Heptane	65		ug/m3	8.6	11/30/11 11:55	12/02/11 4:25	EPA TO-15
87-68-3	Hexachlorobutadiene	4.2	U	ug/m3	4.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
110-54-3	Hexane	15		ug/m3	1.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
26635-64-3	Isooctane	2.0	U	ug/m3	2.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15
67-63-0	Isopropanol	120	J, QC-4, QL-1	ug/m3	6.1	11/30/11 11:55	12/02/11 4:25	EPA TO-15
591-78-6	Methyl Butyl Ketone	1.8	U	ug/m3	1.8	11/30/11 11:55	12/14/11 6:11	EPA TO-15
78-93-3	Methyl Ethyl Ketone	21		ug/m3	1.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-10-1	Methyl Isobutyl Ketone	1.0	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
1634-04-4	Methyl T-Butyl Ether (MTBE)	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-09-2	Methylene Chloride	1.4	U	ug/m3	1.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
91-20-3	Naphthalene	6.4	J, QR-2	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
95-47-6	o-Xylene	1.1	J, Q-2	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
115-07-1	Propene	180	J, QC-4	ug/m3	9.1	11/30/11 11:55	12/02/11 4:25	EPA TO-15
100-42-5	Styrene	31		ug/m3	1.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15
127-18-4	Tetrachloroethene (Tetrachloroethylene)	0.84	J, Q-2	ug/m3	2.7	11/30/11 11:55	12/08/11 17:30	EPA TO-15



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics

Project: 12-0060, West Palm Beach Gasification**Sample ID:** WPG9SGNov11**Lab ID:** E114801-13**Station ID:** WPG9**Matrix:** Soil Gas**Date Collected:** 11/16/11 0:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
109-99-9	Tetrahydrofuran	0.23	J, Q-2	ug/m3	3.1	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-88-3	Toluene	9.8		ug/m3	1.5	11/30/11 11:55	12/08/11 17:30	EPA TO-15
156-60-5	trans-1,2-Dichloroethene	1.6	U	ug/m3	1.6	11/30/11 11:55	12/08/11 17:30	EPA TO-15
10061-02-6	trans-1,3-Dichloropropene	1.9	U	ug/m3	1.9	11/30/11 11:55	12/08/11 17:30	EPA TO-15
79-01-6	Trichloroethylene (Trichloroethylene)	2.2	U	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-69-4	Trichlorofluoromethane (Freon 11)	1.4	J, Q-2	ug/m3	2.2	11/30/11 11:55	12/08/11 17:30	EPA TO-15
108-05-4	Vinyl acetate	1.4	U	ug/m3	1.4	11/30/11 11:55	12/08/11 17:30	EPA TO-15
593-60-2	Vinyl bromide	1.8	U	ug/m3	1.8	11/30/11 11:55	12/08/11 17:30	EPA TO-15
75-01-4	Vinyl chloride	1.0	U	ug/m3	1.0	11/30/11 11:55	12/08/11 17:30	EPA TO-15

Tentatively Identified Compounds:

R4-7505	Acetaldehyde (TIC)	90	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-7502	Butane (TIC)	2000	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-7507	Ethanol (TIC)	200	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-8000229	Hexanal (TIC)	30	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-7545	Limonene (TIC)	30	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-7506	Methylbutane (TIC)	60	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-6500	Petroleum Product:		N		11:55 11:55	12/08/11 17:30	EPA TO-15
R4-6520	Pinene (TIC)	20	NJ	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15
R4-6501	Unidentified Compound(s)	100	J	ug/m3	11/30/11 11:55	12/08/11 17:30	EPA TO-15



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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**Blank (1111111-BLK1)**

Prepared & Analyzed: 11/30/11

EPA TO-15

Surrogate: Dibromoformmethane	100		ug/m3	100.00	100	56.7-147		
Surrogate: Toluene-d8	100		"	100.00	100	54.7-147		
Surrogate: p-Bromofluorobenzene	100		"	100.00	100	44.2-160		
Propene	71.964	340	"				B-3, J	
Dichlorodifluoromethane (Freon 12)	U	360	"				U	
1,2-Dichlorotetrafluoroethane (Freon 114)	U	500	"				U	
Chloromethane	U	380	"				U	
Vinyl chloride	U	190	"				U	
1,3-Butadiene	U	330	"				U	
Bromomethane	U	280	"				U	
Chloroethane	U	490	"				U	
Vinyl bromide	U	340	"				U	
Trichlorofluoromethane (Freon 11)	U	410	"				U	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	550	"				U	
1,1-Dichloroethene (1,1-Dichloroethylene)	U	280	"				U	
Acetone	34.088	420	"				B-3, J	
Isopropanol	22.726	230	"				B-3, J	
Carbon disulfide	U	230	"				U	
3-Chloropropene	U	440	"				U	
Methylene Chloride	U	250	"				U	
Acrylonitrile	U	160	"				U	
Methyl T-Butyl Ether (MTBE)	U	290	"				U	
trans-1,2-Dichloroethene	U	300	"				U	
Hexane	U	270	"				U	
1,1-Dichloroethane	U	300	"				U	
Vinyl acetate	U	270	"				U	
Methyl Ethyl Ketone	U	230	"				U	
cis-1,2-Dichloroethene	U	290	"				U	
Ethyl Acetate	U	680	"				U	
Chloroform	U	360	"				U	
Tetrahydrofuran	U	570	"				U	
1,1,1-Trichloroethane	U	400	"				U	
Cyclohexane	U	270	"				U	
Carbon Tetrachloride	U	460	"				U	
1,2-Dichloroethane	U	300	"				U	
Benzene	U	240	"				U	
Isooctane	U	370	"				U	
Heptane	U	320	"				U	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**Blank (1111111-BLK1)**

Prepared & Analyzed: 11/30/11

Trichloroethene (Trichloroethylene)	U	400	ug/m3							U
1,2-Dichloropropane	U	340	"							U
1,4-Dioxane	U	680	"							U
Bromodichloromethane	U	510	"							U
cis-1,3-Dichloropropene	U	330	"							U
Methyl Isobutyl Ketone	U	340	"							U
Toluene	U	280	"							U
trans-1,3-Dichloropropene	U	350	"							U
1,1,2-Trichloroethane	U	400	"							U
Tetrachloroethene (Tetrachloroethylene)	U	500	"							U
Methyl Butyl Ketone	U	340	"							U
Dibromochloromethane	U	650	"							U
1,2-Dibromoethane (EDB)	U	570	"							U
Chlorobenzene	U	340	"							U
Ethyl Benzene	U	320	"							U
(m- and/or p-)Xylene	U	640	"							U
o-Xylene	U	330	"							U
Styrene	U	310	"							U
Bromoform	U	5500	"							U
1,1,2,2-Tetrachloroethane	U	510	"							U
4-Ethyltoluene	U	770	"							U
1,3,5-Trimethylbenzene	U	350	"							U
1,2,4-Trimethylbenzene	U	360	"							U
1,3-Dichlorobenzene	U	440	"							U
1,4-Dichlorobenzene	41.663	450	"							B-3, J
Benzyl chloride	U	390	"							U
1,2-Dichlorobenzene	U	440	"							U
1,2,4-Trichlorobenzene	U	530	"							U
Hexachlorobutadiene	U	780	"							U
Naphthalene	U	410	"							U
Tentatively Identified Compounds	U	400	"							



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC Limits	RPD RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**Blank (1111111-BLK2)**

Prepared & Analyzed: 11/30/11

EPA TO-15

Surrogate: Dibromoformmethane	100		ug/m3	100.00	100	56.7-147		
Surrogate: Toluene-d8	100		"	100.00	100	54.7-147		
Surrogate: p-Bromofluorobenzene	100		"	100.00	100	44.2-160		
Propene	0.35000	2.2	"				B-3, J	
Dichlorodifluoromethane (Freon 12)	U	2.4	"				U	
1,2-Dichlorotetrafluoroethane (Freon 114)	U	3.3	"				U	
Chloromethane	U	2.5	"				U	
Vinyl chloride	U	1.2	"				U	
1,3-Butadiene	U	2.2	"				U	
Bromomethane	U	1.8	"				U	
Chloroethane	U	3.2	"				U	
Vinyl bromide	U	2.2	"				U	
Trichlorofluoromethane (Freon 11)	U	2.7	"				U	
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	3.6	"				U	
1,1-Dichloroethene (1,1-Dichloroethylene)	U	1.8	"				U	
Acetone	U	2.8	"				U	
Isopropanol	U	1.5	"				U	
Carbon disulfide	U	1.6	"				U	
3-Chloropropene	U	2.9	"				U	
Methylene Chloride	U	1.6	"				U	
Acrylonitrile	U	1.0	"				U	
Methyl T-Butyl Ether (MTBE)	U	1.9	"				U	
trans-1,2-Dichloroethene	U	2.0	"				U	
Hexane	U	1.8	"				U	
1,1-Dichloroethane	U	2.0	"				U	
Vinyl acetate	U	1.8	"				U	
Methyl Ethyl Ketone	U	1.5	"				U	
cis-1,2-Dichloroethene	U	1.9	"				U	
Ethyl Acetate	U	4.5	"				U	
Chloroform	U	2.4	"				U	
Tetrahydrofuran	U	3.8	"				U	
1,1,1-Trichloroethane	U	2.6	"				U	
Cyclohexane	U	1.8	"				U	
Carbon Tetrachloride	U	3.0	"				U	
1,2-Dichloroethane	U	2.0	"				U	
Benzene	U	1.6	"				U	
Isooctane	U	2.4	"				U	
Heptane	U	2.1	"				U	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**Blank (1111111-BLK2)**

Prepared & Analyzed: 11/30/11

Trichloroethene (Trichloroethylene)	U	2.6	ug/m3							U
1,2-Dichloropropane	U	2.2	"							U
1,4-Dioxane	U	4.5	"							U
Bromodichloromethane	U	3.4	"							U
cis-1,3-Dichloropropene	U	2.2	"							U
Methyl Isobutyl Ketone	U	2.2	"							U
Toluene	U	1.8	"							U
trans-1,3-Dichloropropene	U	2.3	"							U
1,1,2-Trichloroethane	U	2.6	"							U
Tetrachloroethene (Tetrachloroethylene)	U	3.3	"							U
Methyl Butyl Ketone	U	2.2	"							U
Dibromochloromethane	U	4.3	"							U
1,2-Dibromoethane (EDB)	U	3.8	"							U
Chlorobenzene	U	2.2	"							U
Ethyl Benzene	U	2.1	"							U
(m- and/or p-)Xylene	U	4.2	"							U
o-Xylene	U	2.2	"							U
Styrene	U	2.1	"							U
Bromoform	U	36	"							U
1,1,2,2-Tetrachloroethane	U	3.4	"							U
4-Ethyltoluene	U	5.1	"							U
1,3,5-Trimethylbenzene	U	2.3	"							U
1,2,4-Trimethylbenzene	U	2.4	"							U
1,3-Dichlorobenzene	U	2.9	"							U
1,4-Dichlorobenzene	U	3.0	"							U
Benzyl chloride	U	2.6	"							U
1,2-Dichlorobenzene	U	2.9	"							U
1,2,4-Trichlorobenzene	U	3.5	"							U
Hexachlorobutadiene	U	5.1	"							U
Naphthalene	U	2.7	"							U
Tentatively Identified Compounds	U	20	"							



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**LCS (1111111-BS1)**

Prepared & Analyzed: 11/30/11

EPA TO-15

Propene	1.4100		ug/m3	1.8000		78.3	59.6-145			
Dichlorodifluoromethane (Freon 12)	3.9300		"	4.8000		81.9	69.1-133			
1,2-Dichlorotetrafluoroethane (Freon 114)	5.1500		"	6.6000		78.0	66.9-131			
Chloromethane	1.4900		"	2.0000		74.5	63-138			
Vinyl chloride	2.1800		"	2.5000		87.2	62.5-133			
1,3-Butadiene	3.9600		"	4.4000		90.0	61.6-133			
Bromomethane	3.4500		"	3.7000		93.2	55.6-135			
Chloroethane	2.3400		"	2.5000		93.6	59.4-140			
Vinyl bromide	3.3900		"	4.5000		75.3	70.2-124			
Trichlorofluoromethane (Freon 11)	4.5300		"	5.4000		83.9	69.5-131			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	5.9700		"	7.3000		81.8	66-124			
1,1-Dichloroethene (1,1-Dichloroethylene)	2.9400		"	3.7000		79.5	63.4-123			
Acetone	1.9600		"	2.2000		89.1	66.9-137			
Isopropanol	1.9600		"	2.7000		72.6	52.3-140			
Carbon disulfide	2.5400		"	3.1000		81.9	68.8-124			
3-Chloropropene	4.5400		"	5.8000		78.3	61.9-128			
Methylene Chloride	2.8000		"	3.3000		84.8	64.2-128			
Acrylonitrile	1.6100		"	2.0000		80.5	56.7-134			
Methyl T-Butyl Ether (MTBE)	3.2200		"	3.9000		82.6	75.8-127			
trans-1,2-Dichloroethene	3.4300		"	4.0000		85.8	71.7-128			
Hexane	2.8000		"	3.5000		80.0	65.3-129			
1,1-Dichloroethane	3.2200		"	3.9000		82.6	66.7-127			
Vinyl acetate	2.8600		"	3.5000		81.7	64.6-137			
Methyl Ethyl Ketone	2.3600		"	3.0000		78.7	73.8-123			
cis-1,2-Dichloroethene	3.0500		"	3.8000		80.3	68.4-125			
Ethyl Acetate	2.8700		"	3.6000		79.7	67.8-122			
Chloroform	3.9500		"	4.7000		84.0	69.5-127			
Tetrahydrofuran	2.3300		"	3.0000		77.7	61-128			
1,1,1-Trichloroethane	4.3400		"	5.2000		83.5	68.8-128			
Cyclohexane	2.8700		"	3.5000		82.0	65.8-128			
Carbon Tetrachloride	5.0500		"	6.0000		84.2	64.1-132			
1,2-Dichloroethane	3.3100		"	3.9000		84.9	68-127			
Benzene	2.6200		"	3.1000		84.5	65.9-125			
Isooctane	4.0600		"	4.9000		82.9	67.1-129			
Heptane	3.4100		"	4.2000		81.2	61-135			
Trichloroethene (Trichloroethylene)	4.1000		"	5.3000		77.4	66.3-133			
1,2-Dichloropropane	3.7900		"	4.5000		84.2	63.4-130			
1,4-Dioxane	2.5400		"	3.5000		72.6	31-137			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister

LCS (1111111-BS1)	Prepared & Analyzed: 11/30/11					
Bromodichloromethane	5.5000		ug/m3	6.7000	82.1	69.8-129
cis-1,3-Dichloropropene	3.5200		"	4.4000	80.0	67.4-123
Methyl Isobutyl Ketone	4.0700		"	4.5000	90.4	54.5-132
Toluene	3.1500		"	3.7000	85.1	70.5-123
trans-1,3-Dichloropropene	3.7100		"	4.6000	80.7	66.3-122
1,1,2-Trichloroethane	4.6100		"	5.3000	87.0	72.7-123
Tetrachloroethylene (Tetrachloroethylene)	5.4100		"	6.6000	82.0	69.7-125
Methyl Butyl Ketone	3.5400		"	4.5000	78.7	47.8-124
Dibromochloromethane	7.1200		"	8.6000	82.8	64.5-129
1,2-Dibromoethane (EDB)	6.2600		"	7.5000	83.5	70.2-123
Chlorobenzene	3.9000		"	4.5000	86.7	70.9-123
Ethyl Benzene	3.7200		"	4.3000	86.5	72-124
(m- and/or p-)Xylene	7.6600		"	8.5000	90.1	74.7-125
o-Xylene	3.8200		"	4.3000	88.8	74.8-125
Styrene	3.5900		"	4.1000	87.6	66.9-128
Bromoform	62.320		"	72.000	86.6	32.1-146
1,1,2,2-Tetrachloroethane	6.5500		"	6.7000	97.8	67-133
4-Ethyltoluene	9.8900		"	10.200	97.0	72.4-141
1,3,5-Trimethylbenzene	4.5400		"	4.6000	98.7	75.2-139
1,2,4-Trimethylbenzene	4.6400		"	4.8000	96.7	69.3-149
1,3-Dichlorobenzene	5.4100		"	5.8000	93.3	65.3-136
1,4-Dichlorobenzene	5.4000		"	5.9000	91.5	63.2-137
Benzyl chloride	4.5700		"	5.2000	87.9	45.5-132
1,2-Dichlorobenzene	5.3300		"	5.8000	91.9	68.1-139
1,2,4-Trichlorobenzene	5.6900		"	7.0000	81.3	26.5-201
Hexachlorobutadiene	9.3900		"	10.200	92.1	43.2-184
Naphthalene	4.2800		"	5.4000	79.3	70-130



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**MRL Verification (1111111-PS1)**

Prepared & Analyzed: 11/30/11

EPA TO-15

Propene	0.49000		ug/m3	0.36000		136	39.6-165			
Dichlorodifluoromethane (Freon 12)	0.93000		"	0.96000		96.9	49.1-153			MRL-5
1,2-Dichlorotetrafluoroethane (Freon 114)	1.2100		"	1.3000		93.1	46.9-151			MRL-5
Chloromethane	0.37000		"	0.40000		92.5	43-158			
Vinyl chloride	0.51000		"	0.49000		104	42.5-153			MRL-5
1,3-Butadiene	0.95000		"	0.88000		108	41.6-153			MRL-5
Bromomethane	0.79000		"	0.74000		107	35.6-155			MRL-5
Chloroethane	0.60000		"	0.51000		118	39.4-160			MRL-5
Vinyl bromide	0.76000		"	0.89000		85.4	50.2-144			MRL-5
Trichlorofluoromethane (Freon 11)	1.0700		"	1.1000		97.3	49.5-151			MRL-5
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.3200		"	1.5000		88.0	46-144			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.65000		"	0.74000		87.8	43.4-143			MRL-5
Acetone	0.43000		"	0.44000		97.7	46.9-157			
Isopropanol	0.70000		"	0.54000		130	32.3-160			MRL-5
Carbon disulfide	0.58000		"	0.62000		93.5	48.8-144			MRL-5
3-Chloropropene	0.95000		"	1.2000		79.2	41.9-148			MRL-5
Methylene Chloride	0.65000		"	0.66000		98.5	44.2-148			MRL-5
Acrylonitrile	0.33000		"	0.41000		80.5	36.7-154			MRL-5
Methyl T-Butyl Ether (MTBE)	0.55000		"	0.77000		71.4	55.8-147			MRL-5
trans-1,2-Dichloroethene	0.70000		"	0.79000		88.6	51.7-148			MRL-5
Hexane	0.51000		"	0.70000		72.9	45.3-149			MRL-5
1,1-Dichloroethane	0.73000		"	0.78000		93.6	46.7-147			MRL-5
Vinyl acetate	0.47000		"	0.70000		67.1	44.6-157			MRL-5
Methyl Ethyl Ketone	0.40000		"	0.60000		66.7	53.8-143			MRL-5
cis-1,2-Dichloroethene	0.57000		"	0.77000		74.0	48.4-145			MRL-5
Ethyl Acetate	0.42000		"	0.73000		57.5	47.8-142			
Chloroform	0.89000		"	0.94000		94.7	49.5-147			MRL-5
Tetrahydrofuran	0.40000		"	0.60000		66.7	41-148			
1,1,1-Trichloroethane	0.98000		"	1.0000		98.0	48.8-148			MRL-5
Cyclohexane	0.53000		"	0.70000		75.7	45.8-148			MRL-5
Carbon Tetrachloride	1.0800		"	1.2000		90.0	44.1-152			MRL-5
1,2-Dichloroethane	0.72000		"	0.78000		92.3	48-147			MRL-5
Benzene	0.54000		"	0.63000		85.7	45.9-145			MRL-5
Isooctane	0.74000		"	0.97000		76.3	47.1-149			MRL-5
Heptane	0.62000		"	0.84000		73.8	41-155			MRL-5
Trichloroethene (Trichloroethylene)	0.83000		"	1.1000		75.5	46.3-153			MRL-5
1,2-Dichloropropane	0.75000		"	0.90000		83.3	43.4-150			MRL-5
1,4-Dioxane	0.36000		"	0.71000		50.7	11-157			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1111111 - V TO-15 Air Canister**MRL Verification (1111111-PS1)**

Prepared & Analyzed: 11/30/11

Bromodichloromethane	1.1800	ug/m3		1.3000		90.8	49.8-149			MRL-5
cis-1,3-Dichloropropene	0.62000	"		0.88000		70.5	47.4-143			MRL-5
Methyl Isobutyl Ketone	0.57000	"		0.90000		63.3	34.5-152			MRL-5
Toluene	0.54000	"		0.74000		73.0	50.5-143			MRL-5
trans-1,3-Dichloropropene	0.59000	"		0.93000		63.4	46.3-142			MRL-5
1,1,2-Trichloroethane	0.89000	"		1.1000		80.9	52.7-143			MRL-5
Tetrachloroethylene (Tetrachloroethylene)	1.1600	"		1.3000		89.2	49.7-145			MRL-5
Methyl Butyl Ketone	0.50000	"		0.90000		55.6	27.8-144			MRL-5
Dibromo-chloromethane	1.3600	"		1.7000		80.0	44.5-149			MRL-5
1,2-Dibromoethane (EDB)	1.2400	"		1.5000		82.7	50.2-143			MRL-5
Chlorobenzene	0.80000	"		0.90000		88.9	50.9-143			MRL-5
Ethyl Benzene	0.56000	"		0.85000		65.9	52-144			MRL-5
(m- and/or p-)Xylene	1.1700	"		1.7000		68.8	54.7-145			MRL-5
o-Xylene	0.53000	"		0.86000		61.6	54.8-145			MRL-5
Styrene	0.46000	"		0.83000		55.4	46.9-148			MRL-5
Bromoform	12.020	"		14.000		85.9	12.1-166			MRL-5
1,1,2,2-Tetrachloroethane	1.3900	"		1.3000		107	47-153			MRL-5
4-Ethyltoluene	1.4600	"		2.0000		73.0	52.4-161			MRL-5
1,3,5-Trimethylbenzene	0.73000	"		0.92000		79.3	55.2-159			MRL-5
1,2,4-Trimethylbenzene	0.60000	"		0.95000		63.2	49.3-169			MRL-5
1,3-Dichlorobenzene	1.0200	"		1.2000		85.0	45.3-156			MRL-5
1,4-Dichlorobenzene	1.1500	"		1.2000		95.8	43.2-157			MRL-5
Benzyl chloride	0.71000	"		1.0000		71.0	25.5-152			MRL-5
1,2-Dichlorobenzene	1.0600	"		1.2000		88.3	48.1-159			MRL-5
1,2,4-Trichlorobenzene	2.1700	"		1.4000		155	10-221			MRL-5
Hexachlorobutadiene	3.6600	"		2.0000		183	23.2-204			
Naphthalene	1.5100	"		1.1000		137	50-150			MRL-5



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**Blank (1112005-BLK1)**

Prepared & Analyzed: 12/01/11

EPA TO-15

Surrogate: Dibromoformmethane	100		ug/m3	100.00	100	56.7-147				
Surrogate: Toluene-d8	99.7		"	100.00	99.7	54.7-147				
Surrogate: p-Bromofluorobenzene	100		"	100.00	100	44.2-160				
Propene	1.0500	4.4	"							B-3, J
Dichlorodifluoromethane (Freon 12)	U	4.8	"							U
1,2-Dichlorotetrafluoroethane (Freon 114)	U	6.6	"							U
Chloromethane	U	5.0	"							U
Vinyl chloride	U	2.4	"							U
1,3-Butadiene	U	4.4	"							U
Bromomethane	U	3.7	"							U
Chloroethane	U	6.5	"							U
Vinyl bromide	U	4.4	"							U
Trichlorofluoromethane (Freon 11)	U	5.4	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	7.2	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	3.7	"							U
Acetone	1.1000	5.5	"							B-3, J
Isopropanol	0.90000	3.0	"							B-3, J
Carbon disulfide	U	3.1	"							U
3-Chloropropene	U	5.8	"							U
Methylene Chloride	U	3.3	"							U
Acrylonitrile	U	2.0	"							U
Methyl T-Butyl Ether (MTBE)	U	3.8	"							U
trans-1,2-Dichloroethene	U	4.0	"							U
Hexane	U	3.5	"							U
1,1-Dichloroethane	U	3.9	"							U
Vinyl acetate	U	3.5	"							U
Methyl Ethyl Ketone	U	3.0	"							U
cis-1,2-Dichloroethene	U	3.8	"							U
Ethyl Acetate	U	9.0	"							U
Chloroform	U	4.7	"							U
Tetrahydrofuran	U	7.5	"							U
1,1,1-Trichloroethane	U	5.2	"							U
Cyclohexane	U	3.5	"							U
Carbon Tetrachloride	U	6.0	"							U
1,2-Dichloroethane	U	3.9	"							U
Benzene	U	3.2	"							U
Isooctane	U	4.8	"							U
Heptane	U	4.2	"							U



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D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**Blank (1112005-BLK1)**

Prepared & Analyzed: 12/01/11

Trichloroethene (Trichloroethylene)	U	5.2	ug/m3							U
1,2-Dichloropropane	U	4.5	"							U
1,4-Dioxane	U	9.0	"							U
Bromodichloromethane	U	6.7	"							U
cis-1,3-Dichloropropene	U	4.4	"							U
Methyl Isobutyl Ketone	U	4.5	"							U
Toluene	U	3.7	"							U
trans-1,3-Dichloropropene	U	4.6	"							U
1,1,2-Trichloroethane	U	5.3	"							U
Tetrachloroethene (Tetrachloroethylene)	U	6.6	"							U
Methyl Butyl Ketone	U	4.5	"							U
Dibromochloromethane	U	8.6	"							U
1,2-Dibromoethane (EDB)	U	7.6	"							U
Chlorobenzene	U	4.5	"							U
Ethyl Benzene	U	4.2	"							U
(m- and/or p-)Xylene	U	8.5	"							U
o-Xylene	U	4.3	"							U
Styrene	U	4.2	"							U
Bromoform	U	72	"							U
1,1,2,2-Tetrachloroethane	U	6.7	"							U
4-Ethyltoluene	U	10	"							U
1,3,5-Trimethylbenzene	U	4.6	"							U
1,2,4-Trimethylbenzene	U	4.8	"							U
1,3-Dichlorobenzene	U	5.8	"							U
1,4-Dichlorobenzene	U	6.0	"							U
Benzyl chloride	U	5.2	"							U
1,2-Dichlorobenzene	U	5.8	"							U
1,2,4-Trichlorobenzene	U	7.0	"							U
Hexachlorobutadiene	U	10	"							U
Naphthalene	U	5.4	"							U
Tentatively Identified Compounds	U	10	"							



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**LCS (1112005-BS1)**

Prepared & Analyzed: 12/01/11

EPA TO-15

Propene	1.4600		ug/m3	1.8000		81.1	59.6-145			
Dichlorodifluoromethane (Freon 12)	4.1000		"	4.8000		85.4	69.1-133			
1,2-Dichlorotetrafluoroethane (Freon 114)	5.3600		"	6.6000		81.2	66.9-131			
Chloromethane	1.5600		"	2.0000		78.0	63-138			
Vinyl chloride	2.3200		"	2.5000		92.8	62.5-133			
1,3-Butadiene	4.2100		"	4.4000		95.7	61.6-133			
Bromomethane	3.5700		"	3.7000		96.5	55.6-135			
Chloroethane	2.1600		"	2.5000		86.4	59.4-140			
Vinyl bromide	3.4300		"	4.5000		76.2	70.2-124			
Trichlorofluoromethane (Freon 11)	4.8500		"	5.4000		89.8	69.5-131			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.1900		"	7.3000		84.8	66-124			
1,1-Dichloroethene (1,1-Dichloroethylene)	3.0500		"	3.7000		82.4	63.4-123			
Acetone	1.9500		"	2.2000		88.6	66.9-137			
Isopropanol	1.3100		"	2.7000		48.5	52.3-140			QL-1
Carbon disulfide	2.6500		"	3.1000		85.5	68.8-124			
3-Chloropropene	4.6500		"	5.8000		80.2	61.9-128			
Methylene Chloride	2.9700		"	3.3000		90.0	64.2-128			
Acrylonitrile	1.6300		"	2.0000		81.5	56.7-134			
Methyl T-Butyl Ether (MTBE)	3.3000		"	3.9000		84.6	75.8-127			
trans-1,2-Dichloroethene	3.3600		"	4.0000		84.0	71.7-128			
Hexane	2.8700		"	3.5000		82.0	65.3-129			
1,1-Dichloroethane	3.3300		"	3.9000		85.4	66.7-127			
Vinyl acetate	2.8000		"	3.5000		80.0	64.6-137			
Methyl Ethyl Ketone	2.4100		"	3.0000		80.3	73.8-123			
cis-1,2-Dichloroethene	3.1400		"	3.8000		82.6	68.4-125			
Ethyl Acetate	2.8300		"	3.6000		78.6	67.8-122			
Chloroform	4.0400		"	4.7000		86.0	69.5-127			
Tetrahydrofuran	2.3500		"	3.0000		78.3	61-128			
1,1,1-Trichloroethane	4.6000		"	5.2000		88.5	68.8-128			
Cyclohexane	2.9100		"	3.5000		83.1	65.8-128			
Carbon Tetrachloride	5.3100		"	6.0000		88.5	64.1-132			
1,2-Dichloroethane	3.4400		"	3.9000		88.2	68-127			
Benzene	2.7000		"	3.1000		87.1	65.9-125			
Isooctane	4.0900		"	4.9000		83.5	67.1-129			
Heptane	3.4200		"	4.2000		81.4	61-135			
Trichloroethene (Trichloroethylene)	4.2300		"	5.3000		79.8	66.3-133			
1,2-Dichloropropane	3.9600		"	4.5000		88.0	63.4-130			
1,4-Dioxane	2.5600		"	3.5000		73.1	31-137			



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister

LCS (1112005-BS1)	Prepared & Analyzed: 12/01/11					
Bromodichloromethane	5.6600		ug/m3	6.7000	84.5	69.8-129
cis-1,3-Dichloropropene	3.5200		"	4.4000	80.0	67.4-123
Methyl Isobutyl Ketone	3.9300		"	4.5000	87.3	54.5-132
Toluene	3.2300		"	3.7000	87.3	70.5-123
trans-1,3-Dichloropropene	3.8600		"	4.6000	83.9	66.3-122
1,1,2-Trichloroethane	4.8200		"	5.3000	90.9	72.7-123
Tetrachloroethylene (Tetrachloroethylene)	5.4000		"	6.6000	81.8	69.7-125
Methyl Butyl Ketone	3.1700		"	4.5000	70.4	47.8-124
Dibromochloromethane	7.2400		"	8.6000	84.2	64.5-129
1,2-Dibromoethane (EDB)	6.5100		"	7.5000	86.8	70.2-123
Chlorobenzene	3.8900		"	4.5000	86.4	70.9-123
Ethyl Benzene	3.8300		"	4.3000	89.1	72-124
(m- and/or p-)Xylene	7.7500		"	8.5000	91.2	74.7-125
o-Xylene	3.9600		"	4.3000	92.1	74.8-125
Styrene	3.6000		"	4.1000	87.8	66.9-128
Bromoform	62.910		"	72.000	87.4	32.1-146
1,1,2,2-Tetrachloroethane	6.6400		"	6.7000	99.1	67-133
4-Ethyltoluene	10.160		"	10.200	99.6	72.4-141
1,3,5-Trimethylbenzene	4.5900		"	4.6000	99.8	75.2-139
1,2,4-Trimethylbenzene	4.6800		"	4.8000	97.5	69.3-149
1,3-Dichlorobenzene	5.3900		"	5.8000	92.9	65.3-136
1,4-Dichlorobenzene	5.4900		"	5.9000	93.1	63.2-137
Benzyl chloride	4.4400		"	5.2000	85.4	45.5-132
1,2-Dichlorobenzene	5.7700		"	5.8000	99.5	68.1-139
1,2,4-Trichlorobenzene	5.0100		"	7.0000	71.6	26.5-201
Hexachlorobutadiene	8.0500		"	10.200	78.9	43.2-184
Naphthalene	3.9500		"	5.4000	73.1	70-130



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**MRL Verification (1112005-PS1)**

Prepared & Analyzed: 12/01/11

EPA TO-15

Propene	0.46000		ug/m3	0.36000		128	39.6-165			
Dichlorodifluoromethane (Freon 12)	0.94000		"	0.96000		97.9	49.1-153			MRL-5
1,2-Dichlorotetrafluoroethane (Freon 114)	1.1900		"	1.3000		91.5	46.9-151			MRL-5
Chloromethane	0.36000		"	0.40000		90.0	43-158			
Vinyl chloride	0.49000		"	0.49000		100	42.5-153			MRL-5
1,3-Butadiene	0.86000		"	0.88000		97.7	41.6-153			MRL-5
Bromomethane	0.77000		"	0.74000		104	35.6-155			MRL-5
Chloroethane	0.54000		"	0.51000		106	39.4-160			
Vinyl bromide	0.70000		"	0.89000		78.7	50.2-144			MRL-5
Trichlorofluoromethane (Freon 11)	1.0400		"	1.1000		94.5	49.5-151			MRL-5
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.2900		"	1.5000		86.0	46-144			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.64000		"	0.74000		86.5	43.4-143			MRL-5
Acetone	0.39000		"	0.44000		88.6	46.9-157			
Isopropanol	0.63000		"	0.54000		117	32.3-160			MRL-5
Carbon disulfide	0.55000		"	0.62000		88.7	48.8-144			MRL-5
3-Chloropropene	0.84000		"	1.2000		70.0	41.9-148			MRL-5
Methylene Chloride	0.57000		"	0.66000		86.4	44.2-148			MRL-5
Acrylonitrile	0.26000		"	0.41000		63.4	36.7-154			MRL-5
Methyl T-Butyl Ether (MTBE)	0.45000		"	0.77000		58.4	55.8-147			MRL-5
trans-1,2-Dichloroethene	0.63000		"	0.79000		79.7	51.7-148			MRL-5
Hexane	0.45000		"	0.70000		64.3	45.3-149			MRL-5
1,1-Dichloroethane	0.67000		"	0.78000		85.9	46.7-147			MRL-5
Vinyl acetate	0.39000		"	0.70000		55.7	44.6-157			MRL-5
Methyl Ethyl Ketone	0.40000		"	0.60000		66.7	53.8-143			MRL-5
cis-1,2-Dichloroethene	0.54000		"	0.77000		70.1	48.4-145			MRL-5
Ethyl Acetate	0.36000		"	0.73000		49.3	47.8-142			
Chloroform	0.78000		"	0.94000		83.0	49.5-147			MRL-5
Tetrahydrofuran	0.33000		"	0.60000		55.0	41-148			
1,1,1-Trichloroethane	0.91000		"	1.0000		91.0	48.8-148			MRL-5
Cyclohexane	0.47000		"	0.70000		67.1	45.8-148			MRL-5
Carbon Tetrachloride	1.0200		"	1.2000		85.0	44.1-152			MRL-5
1,2-Dichloroethane	0.67000		"	0.78000		85.9	48-147			MRL-5
Benzene	0.50000		"	0.63000		79.4	45.9-145			MRL-5
Isooctane	0.65000		"	0.97000		67.0	47.1-149			MRL-5
Heptane	0.52000		"	0.84000		61.9	41-155			MRL-5
Trichloroethene (Trichloroethylene)	0.81000		"	1.1000		73.6	46.3-153			MRL-5
1,2-Dichloropropane	0.66000		"	0.90000		73.3	43.4-150			MRL-5
1,4-Dioxane	0.28000		"	0.71000		39.4	11-157			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112005 - V TO-15 Air Canister**MRL Verification (1112005-PS1)**

Prepared & Analyzed: 12/01/11

Bromodichloromethane	1.0800		ug/m3	1.3000	83.1	49.8-149				MRL-5
cis-1,3-Dichloropropene	0.61000		"	0.88000	69.3	47.4-143				MRL-5
Methyl Isobutyl Ketone	0.53000		"	0.90000	58.9	34.5-152				MRL-5
Toluene	0.48000		"	0.74000	64.9	50.5-143				MRL-5
trans-1,3-Dichloropropene	0.57000		"	0.93000	61.3	46.3-142				MRL-5
1,1,2-Trichloroethane	0.89000		"	1.1000	80.9	52.7-143				MRL-5
Tetrachloroethylene (Tetrachloroethylene)	1.0400		"	1.3000	80.0	49.7-145				MRL-5
Methyl Butyl Ketone	0.44000		"	0.90000	48.9	27.8-144				MRL-5
Dibromochloromethane	1.2200		"	1.7000	71.8	44.5-149				MRL-5
1,2-Dibromoethane (EDB)	1.1500		"	1.5000	76.7	50.2-143				MRL-5
Chlorobenzene	0.68000		"	0.90000	75.6	50.9-143				MRL-5
Ethyl Benzene	0.50000		"	0.85000	58.8	52-144				MRL-5
(m- and/or p-)Xylene	0.98000		"	1.7000	57.6	54.7-145				MRL-5
o-Xylene	0.46000		"	0.86000	53.5	54.8-145				MRL-5, QR-1
Styrene	0.37000		"	0.83000	44.6	46.9-148				MRL-5, QR-1
Bromoform	11.210		"	14.000	80.1	12.1-166				MRL-5
1,1,2,2-Tetrachloroethane	1.2900		"	1.3000	99.2	47-153				MRL-5
4-Ethyltoluene	1.1900		"	2.0000	59.5	52.4-161				MRL-5
1,3,5-Trimethylbenzene	0.59000		"	0.92000	64.1	55.2-159				MRL-5
1,2,4-Trimethylbenzene	0.48000		"	0.95000	50.5	49.3-169				MRL-5
1,3-Dichlorobenzene	0.93000		"	1.2000	77.5	45.3-156				MRL-5
1,4-Dichlorobenzene	1.0800		"	1.2000	90.0	43.2-157				MRL-5
Benzyl chloride	0.59000		"	1.0000	59.0	25.5-152				MRL-5
1,2-Dichlorobenzene	0.91000		"	1.2000	75.8	48.1-159				MRL-5
1,2,4-Trichlorobenzene	1.9100		"	1.4000	136	10-221				MRL-5
Hexachlorobutadiene	2.7100		"	2.0000	136	23.2-204				
Naphthalene	1.4200		"	1.1000	129	50-150				MRL-5



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**Blank (1112033-BLK1)**

Prepared: 12/06/11 Analyzed: 12/13/11

EPA TO-15

Surrogate: Dibromoformmethane	100		ug/m3	100.00	100	56.7-147				
Surrogate: Toluene-d8	100		"	100.00	100	54.7-147				
Surrogate: p-Bromofluorobenzene	100		"	100.00	100	44.2-160				
Propene	0.18000	0.89	"							B-3, J
Dichlorodifluoromethane (Freon 12)	U	0.96	"							U
1,2-Dichlorotetrafluoroethane (Freon 114)	U	1.3	"							U
Chloromethane	U	1.0	"							U
Vinyl chloride	U	0.49	"							U
1,3-Butadiene	U	0.88	"							U
Bromomethane	U	0.74	"							U
Chloroethane	U	1.3	"							U
Vinyl bromide	U	0.89	"							U
Trichlorofluoromethane (Freon 11)	U	1.1	"							U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	U	1.4	"							U
1,1-Dichloroethene (1,1-Dichloroethylene)	U	0.74	"							U
Acetone	0.18000	1.1	"							B-3, J
Isopropanol	0.060000	0.60	"							B-3, J
Carbon disulfide	U	0.62	"							U
3-Chloropropene	U	1.2	"							U
Methylene Chloride	U	0.66	"							U
Acrylonitrile	U	0.41	"							U
Methyl T-Butyl Ether (MTBE)	U	0.77	"							U
trans-1,2-Dichloroethene	U	0.79	"							U
Hexane	U	0.70	"							U
1,1-Dichloroethane	U	0.78	"							U
Vinyl acetate	U	0.70	"							U
Methyl Ethyl Ketone	U	0.60	"							U
cis-1,2-Dichloroethene	U	0.77	"							U
Ethyl Acetate	U	1.8	"							U
Chloroform	U	0.94	"							U
Tetrahydrofuran	U	1.5	"							U
1,1,1-Trichloroethane	U	1.0	"							U
Cyclohexane	U	0.70	"							U
Carbon Tetrachloride	U	1.2	"							U
1,2-Dichloroethane	U	0.78	"							U
Benzene	U	0.63	"							U
Isooctane	U	0.97	"							U
Heptane	U	0.84	"							U



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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**Blank (1112033-BLK1)**

Prepared: 12/06/11 Analyzed: 12/13/11

Trichloroethene (Trichloroethylene)	U	1.0	ug/m3							U
1,2-Dichloropropane	U	0.90	"							U
1,4-Dioxane	U	1.8	"							U
Bromodichloromethane	U	1.3	"							U
cis-1,3-Dichloropropene	U	0.88	"							U
Methyl Isobutyl Ketone	U	0.90	"							U
Toluene	U	0.74	"							U
trans-1,3-Dichloropropene	U	0.93	"							U
1,1,2-Trichloroethane	U	1.1	"							U
Tetrachloroethene (Tetrachloroethylene)	U	1.3	"							U
Methyl Butyl Ketone	U	0.90	"							U
Dibromochloromethane	U	1.7	"							U
1,2-Dibromoethane (EDB)	U	1.5	"							U
Chlorobenzene	U	0.90	"							U
Ethyl Benzene	U	0.85	"							U
(m- and/or p-)Xylene	U	1.7	"							U
o-Xylene	U	0.86	"							U
Styrene	U	0.83	"							U
Bromoform	U	14	"							U
1,1,2,2-Tetrachloroethane	U	1.3	"							U
4-Ethyltoluene	U	2.0	"							U
1,3,5-Trimethylbenzene	U	0.92	"							U
1,2,4-Trimethylbenzene	U	0.95	"							U
1,3-Dichlorobenzene	U	1.2	"							U
1,4-Dichlorobenzene	U	1.2	"							U
Benzyl chloride	U	1.0	"							U
1,2-Dichlorobenzene	U	1.2	"							U
1,2,4-Trichlorobenzene	U	1.4	"							U
Hexachlorobutadiene	U	2.0	"							U
Naphthalene	U	1.1	"							U
Tentatively Identified Compounds	U	10	"							



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**LCS (1112033-BS1)**

Prepared: 12/06/11 Analyzed: 12/13/11

EPA TO-15

Propene	1.5600		ug/m3	1.8000		86.7	59.6-145			
Dichlorodifluoromethane (Freon 12)	4.0100		"	4.8000		83.5	69.1-133			
1,2-Dichlorotetrafluoroethane (Freon 114)	5.3100		"	6.6000		80.5	66.9-131			
Chloromethane	1.4400		"	2.0000		72.0	63-138			
Vinyl chloride	1.3800		"	2.5000		55.2	62.5-133			QC-1, QL-1
1,3-Butadiene	2.4000		"	4.4000		54.5	61.6-133			QC-1, QL-1
Bromomethane	2.0200		"	3.7000		54.6	55.6-135			QC-1, QL-1
Chloroethane	1.9800		"	2.5000		79.2	59.4-140			
Vinyl bromide	3.8700		"	4.5000		86.0	70.2-124			
Trichlorofluoromethane (Freon 11)	4.6400		"	5.4000		85.9	69.5-131			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.1900		"	7.3000		84.8	66-124			
1,1-Dichloroethene (1,1-Dichloroethylene)	3.2400		"	3.7000		87.6	63.4-123			
Acetone	2.2000		"	2.2000		100	66.9-137			
Isopropanol	4.1000		"	2.7000		152	52.3-140			QL-2
Carbon disulfide	2.7400		"	3.1000		88.4	68.8-124			
3-Chloropropene	4.8600		"	5.8000		83.8	61.9-128			
Methylene Chloride	2.7300		"	3.3000		82.7	64.2-128			
Acrylonitrile	1.7000		"	2.0000		85.0	56.7-134			
Methyl T-Butyl Ether (MTBE)	3.4100		"	3.9000		87.4	75.8-127			
trans-1,2-Dichloroethene	3.5300		"	4.0000		88.2	71.7-128			
Hexane	3.2600		"	3.5000		93.1	65.3-129			
1,1-Dichloroethane	3.1700		"	3.9000		81.3	66.7-127			
Vinyl acetate	2.8100		"	3.5000		80.3	64.6-137			
Methyl Ethyl Ketone	2.3900		"	3.0000		79.7	73.8-123			
cis-1,2-Dichloroethene	3.3400		"	3.8000		87.9	68.4-125			
Ethyl Acetate	2.8500		"	3.6000		79.2	67.8-122			
Chloroform	3.7000		"	4.7000		78.7	69.5-127			
Tetrahydrofuran	2.2200		"	3.0000		74.0	61-128			
1,1,1-Trichloroethane	4.1000		"	5.2000		78.8	68.8-128			
Cyclohexane	3.0200		"	3.5000		86.3	65.8-128			
Carbon Tetrachloride	4.7800		"	6.0000		79.7	64.1-132			
1,2-Dichloroethane	3.0000		"	3.9000		76.9	68-127			
Benzene	2.4900		"	3.1000		80.3	65.9-125			
Isooctane	3.9600		"	4.9000		80.8	67.1-129			
Heptane	3.4400		"	4.2000		81.9	61-135			
Trichloroethene (Trichloroethylene)	4.6500		"	5.3000		87.7	66.3-133			
1,2-Dichloropropane	3.3500		"	4.5000		74.4	63.4-130			



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**LCS (1112033-BS1)**

Prepared: 12/06/11 Analyzed: 12/13/11

1,4-Dioxane	2.5800		ug/m3	3.5000		73.7	31-137			
Bromodichloromethane	4.9800		"	6.7000		74.3	69.8-129			
cis-1,3-Dichloropropene	3.5600		"	4.4000		80.9	67.4-123			
Methyl Isobutyl Ketone	3.8300		"	4.5000		85.1	54.5-132			
Toluene	3.0900		"	3.7000		83.5	70.5-123			
trans-1,3-Dichloropropene	3.6200		"	4.6000		78.7	66.3-122			
1,1,2-Trichloroethane	4.0300		"	5.3000		76.0	72.7-123			
Tetrachloroethene (Tetrachloroethylene)	5.9800		"	6.6000		90.6	69.7-125			
Methyl Butyl Ketone	3.6300		"	4.5000		80.7	47.8-124			
Dibromochloromethane	6.7500		"	8.6000		78.5	64.5-129			
1,2-Dibromoethane (EDB)	6.1800		"	7.5000		82.4	70.2-123			
Chlorobenzene	3.6900		"	4.5000		82.0	70.9-123			
Ethyl Benzene	3.4000		"	4.3000		79.1	72-124			
(m- and/or p-)Xylene	6.6100		"	8.5000		77.8	74.7-125			
o-Xylene	3.3900		"	4.3000		78.8	74.8-125			
Styrene	3.2100		"	4.1000		78.3	66.9-128			
Bromoform	59.690		"	72.000		82.9	32.1-146			
1,1,2,2-Tetrachloroethane	5.4600		"	6.7000		81.5	67-133			
4-Ethyltoluene	8.6700		"	10.200		85.0	72.4-141			
1,3,5-Trimethylbenzene	3.9700		"	4.6000		86.3	75.2-139			
1,2,4-Trimethylbenzene	4.1700		"	4.8000		86.9	69.3-149			
1,3-Dichlorobenzene	5.2100		"	5.8000		89.8	65.3-136			
1,4-Dichlorobenzene	5.1700		"	5.9000		87.6	63.2-137			
Benzyl chloride	3.8400		"	5.2000		73.8	45.5-132			
1,2-Dichlorobenzene	5.1600		"	5.8000		89.0	68.1-139			
1,2,4-Trichlorobenzene	10.030		"	7.0000		143	26.5-201			
Hexachlorobutadiene	12.360		"	10.200		121	43.2-184			
Naphthalene	7.8500		"	5.4000		145	70-130			QL-2



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**LCS (1112033-BS2)**

Prepared: 12/06/11 Analyzed: 12/08/11

EPA TO-15

Propene	1.7600		ug/m3	1.8000		97.8	59.6-145			
Dichlorodifluoromethane (Freon 12)	4.2900		"	4.8000		89.4	69.1-133			
1,2-Dichlorotetrafluoroethane (Freon 114)	5.6500		"	6.6000		85.6	66.9-131			
Chloromethane	1.5400		"	2.0000		77.0	63-138			
Vinyl chloride	2.1700		"	2.5000		86.8	62.5-133			
1,3-Butadiene	3.7500		"	4.4000		85.2	61.6-133			
Bromomethane	2.4900		"	3.7000		67.3	55.6-135			QC-1
Chloroethane	2.2300		"	2.5000		89.2	59.4-140			
Vinyl bromide	3.5900		"	4.5000		79.8	70.2-124			
Trichlorofluoromethane (Freon 11)	5.0000		"	5.4000		92.6	69.5-131			
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	6.1900		"	7.3000		84.8	66-124			
1,1-Dichloroethene (1,1-Dichloroethylene)	3.2300		"	3.7000		87.3	63.4-123			
Acetone	2.4800		"	2.2000		113	66.9-137			
Isopropanol	0.93000		"	2.7000		34.4	52.3-140			QC-1, QL-1
Carbon disulfide	2.6500		"	3.1000		85.5	68.8-124			
3-Chloropropene	4.8400		"	5.8000		83.4	61.9-128			
Methylene Chloride	2.9400		"	3.3000		89.1	64.2-128			
Acrylonitrile	1.7700		"	2.0000		88.5	56.7-134			
Methyl T-Butyl Ether (MTBE)	3.4800		"	3.9000		89.2	75.8-127			
trans-1,2-Dichloroethene	3.5000		"	4.0000		87.5	71.7-128			
Hexane	3.0600		"	3.5000		87.4	65.3-129			
1,1-Dichloroethane	3.3600		"	3.9000		86.2	66.7-127			
Vinyl acetate	3.0400		"	3.5000		86.9	64.6-137			
Methyl Ethyl Ketone	2.5200		"	3.0000		84.0	73.8-123			
cis-1,2-Dichloroethene	3.2100		"	3.8000		84.5	68.4-125			
Ethyl Acetate	3.2100		"	3.6000		89.2	67.8-122			
Chloroform	4.1200		"	4.7000		87.7	69.5-127			
Tetrahydrofuran	2.5900		"	3.0000		86.3	61-128			
1,1,1-Trichloroethane	4.7000		"	5.2000		90.4	68.8-128			
Cyclohexane	3.1900		"	3.5000		91.1	65.8-128			
Carbon Tetrachloride	5.4600		"	6.0000		91.0	64.1-132			
1,2-Dichloroethane	3.6000		"	3.9000		92.3	68-127			
Benzene	2.7700		"	3.1000		89.4	65.9-125			
Isooctane	4.4000		"	4.9000		89.8	67.1-129			
Heptane	3.8600		"	4.2000		91.9	61-135			
Trichloroethene (Trichloroethylene)	4.3700		"	5.3000		82.5	66.3-133			
1,2-Dichloropropane	3.9200		"	4.5000		87.1	63.4-130			
1,4-Dioxane	2.6900		"	3.5000		76.9	31-137			



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister

LCS (1112033-BS2)	Prepared: 12/06/11 Analyzed: 12/08/11					
Bromodichloromethane	5.9700		ug/m3	6.7000	89.1	69.8-129
cis-1,3-Dichloropropene	3.6600		"	4.4000	83.2	67.4-123
Methyl Isobutyl Ketone	4.1500		"	4.5000	92.2	54.5-132
Toluene	3.1800		"	3.7000	85.9	70.5-123
trans-1,3-Dichloropropene	4.0600		"	4.6000	88.3	66.3-122
1,1,2-Trichloroethane	4.4300		"	5.3000	83.6	72.7-123
Tetrachloroethylene (Tetrachloroethylene)	5.7700		"	6.6000	87.4	69.7-125
Methyl Butyl Ketone	2.7400		"	4.5000	60.9	47.8-124
Dibromochloromethane	7.1300		"	8.6000	82.9	64.5-129
1,2-Dibromoethane (EDB)	6.3400		"	7.5000	84.5	70.2-123
Chlorobenzene	3.9200		"	4.5000	87.1	70.9-123
Ethyl Benzene	3.7700		"	4.3000	87.7	72-124
(m- and/or p-)Xylene	7.5700		"	8.5000	89.1	74.7-125
o-Xylene	3.7900		"	4.3000	88.1	74.8-125
Styrene	3.5000		"	4.1000	85.4	66.9-128
Bromoform	61.120		"	72.000	84.9	32.1-146
1,1,2,2-Tetrachloroethane	6.3200		"	6.7000	94.3	67-133
4-Ethyltoluene	9.6900		"	10.200	95.0	72.4-141
1,3,5-Trimethylbenzene	4.4700		"	4.6000	97.2	75.2-139
1,2,4-Trimethylbenzene	4.6300		"	4.8000	96.5	69.3-149
1,3-Dichlorobenzene	5.4300		"	5.8000	93.6	65.3-136
1,4-Dichlorobenzene	5.4000		"	5.9000	91.5	63.2-137
Benzyl chloride	4.6100		"	5.2000	88.7	45.5-132
1,2-Dichlorobenzene	5.8200		"	5.8000	100	68.1-139
1,2,4-Trichlorobenzene	5.1000		"	7.0000	72.9	26.5-201
Hexachlorobutadiene	7.8100		"	10.200	76.6	43.2-184
Naphthalene	3.8700		"	5.4000	71.7	70-130



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**Duplicate (1112033-DUP1)****Source: E114801-03**

Prepared: 12/06/11 Analyzed: 12/13/11

EPA TO-15

Surrogate: Dibromoformmethane	108		ug/m3	100.00	108	56.7-147				
Surrogate: Toluene-d8	115		"	100.00	115	54.7-147				
Surrogate: p-Bromofluorobenzene	108		"	100.00	108	44.2-160				
Propene	0.63789	2.4	"		U			20		J
Dichlorodifluoromethane (Freon 12)	2.6313	2.6	"	2.6313			0.00	20		
1,2-Dichlorotetrafluoroethane (Freon 114)	U	3.5	"	U				20		U
Chloromethane	1.3555	2.7	"	1.3289			1.98	20		Q-2, J
Vinyl chloride	U	1.3	"	U				20		QC-1, QL-1, U
1,3-Butadiene	U	2.3	"	U				20		QC-1, QL-1, U
Bromomethane	U	2.0	"	U				20		QC-1, QL-1, U
Chloroethane	U	3.5	"	U				20		U
Vinyl bromide	U	2.4	"	U				20		U
Trichlorofluoromethane (Freon 11)	1.4353	2.9	"	1.4353			0.00	20		Q-2, J
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	0.55816	3.9	"	0.58474			4.65	20		Q-2, J
1,1-Dichloroethene (1,1-Dichloroethylene)	U	2.0	"	U				20		U
Acetone	5.1563	2.9	"	5.3424			3.54	20		
Isopropanol	U	1.6	"	U				20		U
Carbon disulfide	U	1.6	"	U				12		U
3-Chloropropene	U	3.1	"	U				20		U
Methylene Chloride	U	1.8	"	0.15947				20		U
Acrylonitrile	U	1.1	"	U				20		U
Methyl T-Butyl Ether (MTBE)	U	2.0	"	U				20		U
trans-1,2-Dichloroethene	U	2.1	"	U				20		U
Hexane	U	1.9	"	U				20		U
1,1-Dichloroethane	U	2.1	"	U				20		U
Vinyl acetate	U	1.9	"	U				20		U
Methyl Ethyl Ketone	0.66447	1.6	"	0.66447			0.00	20		Q-2, J
cis-1,2-Dichloroethene	U	2.0	"	U				20		U
Ethyl Acetate	U	4.8	"	U				20		U
Chloroform	U	2.5	"	U				20		U
Tetrahydrofuran	U	4.0	"	U				20		U
1,1,1-Trichloroethane	U	2.8	"	U				20		U
Cyclohexane	U	1.9	"	U				20		U
Carbon Tetrachloride	0.42526	3.2	"	0.47842			11.8	20		Q-2, J
1,2-Dichloroethane	U	2.1	"	U				20		U
Benzene	0.18605	1.7	"	0.18605			0.00	20		Q-2, J



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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control**US-EPA, Region 4, SESD**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister

Duplicate (1112033-DUP1)	Source: E114801-03			Prepared: 12/06/11 Analyzed: 12/13/11						
Isooctane	U	2.6	ug/m3		U			20		U
Heptane	0.18605	2.2	"		U			20		J
Trichloroethene (Trichloroethylene)	U	2.8	"		U			20		U
1,2-Dichloropropane	U	2.4	"		U			20		U
1,4-Dioxane	U	4.8	"		U			20		U
Bromodichloromethane	U	3.6	"		U			20		U
cis-1,3-Dichloropropene	U	2.3	"		U			20		U
Methyl Isobutyl Ketone	U	2.4	"		U			20		U
Toluene	0.31895	2.0	"	0.31895			0.00	20		Q-2, J
trans-1,3-Dichloropropene	U	2.5	"		U			20		U
1,1,2-Trichloroethane	U	2.8	"		U			20		U
Tetrachloroethene (Tetrachloroethylene)	U	3.5	"		U			18.2		U
Methyl Butyl Ketone	U	2.4	"		U			20		U
Dibromochloromethane	U	4.6	"		U			20		U
1,2-Dibromoethane (EDB)	U	4.0	"		U			20		U
Chlorobenzene	U	2.4	"		U			20		U
Ethyl Benzene	U	2.3	"		U			20		U
(m- and/or p-)Xylene	U	4.5	"		U			20		U
o-Xylene	U	2.3	"		U			20		U
Styrene	U	2.2	"		U			20		U
Bromoform	U	38	"		U			20		U
1,1,2,2-Tetrachloroethane	U	3.6	"		U			20		U
4-Ethyltoluene	U	5.4	"		U			20		U
1,3,5-Trimethylbenzene	U	2.4	"		U			20		U
1,2,4-Trimethylbenzene	0.18605	2.5	"		U			20		U
1,3-Dichlorobenzene	U	3.1	"		U			20		U
1,4-Dichlorobenzene	0.23921	3.2	"		U			20		U
Benzyl chloride	U	2.7	"		U			20		U
1,2-Dichlorobenzene	U	3.1	"		U			20		U
1,2,4-Trichlorobenzene	U	3.7	"		U			20		U
Hexachlorobutadiene	U	5.4	"		U			20		U
Naphthalene	U	2.9	"		U			20		U



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch 1112033 - V TO-15 Air Canister**MRL Verification (1112033-PS1)**

Prepared: 12/06/11 Analyzed: 12/13/11

EPA TO-15

Propene	0.43000		ug/m3	0.36000	119	39.6-165			
Dichlorodifluoromethane (Freon 12)	0.83000		"	0.96000	86.5	49.1-153			MRL-5
1,2-Dichlorotetrafluoroethane (Freon 114)	1.0500		"	1.3000	80.8	46.9-151			MRL-5
Chloromethane	0.26000		"	0.40000	65.0	43-158			
Vinyl chloride	0.25000		"	0.49000	51.0	42.5-153			MRL-5
1,3-Butadiene	0.46000		"	0.88000	52.3	41.6-153			MRL-5
Bromomethane	0.42000		"	0.74000	56.8	35.6-155			MRL-5
Chloroethane	0.29000		"	0.51000	56.9	39.4-160			
Vinyl bromide	0.76000		"	0.89000	85.4	50.2-144			MRL-5
Trichlorofluoromethane (Freon 11)	0.95000		"	1.1000	86.4	49.5-151			MRL-5
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.2600		"	1.5000	84.0	46-144			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.67000		"	0.74000	90.5	43.4-143			MRL-5
Acetone	0.46000		"	0.44000	105	46.9-157			
Isopropanol	0.90000		"	0.54000	167	32.3-160			MRL-5, QR-2
Carbon disulfide	0.56000		"	0.62000	90.3	48.8-144			MRL-5
3-Chloropropene	0.98000		"	1.2000	81.7	41.9-148			MRL-5
Methylene Chloride	0.56000		"	0.66000	84.8	44.2-148			MRL-5
Acrylonitrile	0.30000		"	0.41000	73.2	36.7-154			MRL-5
Methyl T-Butyl Ether (MTBE)	0.57000		"	0.77000	74.0	55.8-147			MRL-5
trans-1,2-Dichloroethene	0.71000		"	0.79000	89.9	51.7-148			MRL-5
Hexane	0.63000		"	0.70000	90.0	45.3-149			MRL-5
1,1-Dichloroethane	0.65000		"	0.78000	83.3	46.7-147			MRL-5
Vinyl acetate	0.45000		"	0.70000	64.3	44.6-157			MRL-5
Methyl Ethyl Ketone	0.40000		"	0.60000	66.7	53.8-143			MRL-5
cis-1,2-Dichloroethene	0.64000		"	0.77000	83.1	48.4-145			MRL-5
Ethyl Acetate	0.43000		"	0.73000	58.9	47.8-142			
Chloroform	0.75000		"	0.94000	79.8	49.5-147			MRL-5
Tetrahydrofuran	0.38000		"	0.60000	63.3	41-148			
1,1,1-Trichloroethane	0.84000		"	1.0000	84.0	48.8-148			MRL-5
Cyclohexane	0.56000		"	0.70000	80.0	45.8-148			MRL-5
Carbon Tetrachloride	0.97000		"	1.2000	80.8	44.1-152			MRL-5
1,2-Dichloroethane	0.57000		"	0.78000	73.1	48-147			MRL-5
Benzene	0.48000		"	0.63000	76.2	45.9-145			MRL-5
Isooctane	0.78000		"	0.97000	80.4	47.1-149			MRL-5
Heptane	0.65000		"	0.84000	77.4	41-155			MRL-5
Trichloroethene (Trichloroethylene)	0.94000		"	1.1000	85.5	46.3-153			MRL-5
1,2-Dichloropropane	0.57000		"	0.90000	63.3	43.4-150			MRL-5
1,4-Dioxane	0.41000		"	0.71000	57.7	11-157			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Science and Ecosystem Support Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 12-0060

Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**MRL Verification (1112033-PS1)**

Prepared: 12/06/11 Analyzed: 12/13/11

Bromodichloromethane	0.98000		ug/m3	1.3000		75.4	49.8-149			MRL-5
cis-1,3-Dichloropropene	0.63000		"	0.88000		71.6	47.4-143			MRL-5
Methyl Isobutyl Ketone	0.64000		"	0.90000		71.1	34.5-152			MRL-5
Toluene	0.50000		"	0.74000		67.6	50.5-143			MRL-5
trans-1,3-Dichloropropene	0.58000		"	0.93000		62.4	46.3-142			MRL-5
1,1,2-Trichloroethane	0.74000		"	1.1000		67.3	52.7-143			MRL-5
Tetrachloroethylene (Tetrachloroethylene)	1.2000		"	1.3000		92.3	49.7-145			MRL-5
Methyl Butyl Ketone	0.58000		"	0.90000		64.4	27.8-144			MRL-5
Dibromochloromethane	1.1900		"	1.7000		70.0	44.5-149			MRL-5
1,2-Dibromoethane (EDB)	1.0500		"	1.5000		70.0	50.2-143			MRL-5
Chlorobenzene	0.66000		"	0.90000		73.3	50.9-143			MRL-5
Ethyl Benzene	0.50000		"	0.85000		58.8	52-144			MRL-5
(m- and/or p-)Xylene	0.98000		"	1.7000		57.6	54.7-145			MRL-5
o-Xylene	0.48000		"	0.86000		55.8	54.8-145			MRL-5
Styrene	0.42000		"	0.83000		50.6	46.9-148			MRL-5
Bromoform	9.7000		"	14.000		69.3	12.1-166			MRL-5
1,1,2,2-Tetrachloroethane	0.98000		"	1.3000		75.4	47-153			MRL-5
4-Ethyltoluene	1.3100		"	2.0000		65.5	52.4-161			MRL-5
1,3,5-Trimethylbenzene	0.64000		"	0.92000		69.6	55.2-159			MRL-5
1,2,4-Trimethylbenzene	0.62000		"	0.95000		65.3	49.3-169			MRL-5
1,3-Dichlorobenzene	0.91000		"	1.2000		75.8	45.3-156			MRL-5
1,4-Dichlorobenzene	1.0200		"	1.2000		85.0	43.2-157			MRL-5
Benzyl chloride	0.59000		"	1.0000		59.0	25.5-152			MRL-5
1,2-Dichlorobenzene	0.89000		"	1.2000		74.2	48.1-159			MRL-5
1,2,4-Trichlorobenzene	2.5400		"	1.4000		181	10-221			MRL-5
Hexachlorobutadiene	2.9300		"	2.0000		146	23.2-204			
Naphthalene	2.1000		"	1.1000		191	50-150			MRL-5, QR-2



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Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**MRL Verification (1112033-PS2)**

Prepared: 12/06/11 Analyzed: 12/08/11

EPA TO-15

Propene	0.52000		ug/m3	0.36000		144	39.6-165			
Dichlorodifluoromethane (Freon 12)	0.98000		"	0.96000		102	49.1-153			MRL-5
1,2-Dichlorotetrafluoroethane (Freon 114)	1.2100		"	1.3000		93.1	46.9-151			MRL-5
Chloromethane	0.42000		"	0.40000		105	43-158			
Vinyl chloride	0.48000		"	0.49000		98.0	42.5-153			MRL-5
1,3-Butadiene	0.84000		"	0.88000		95.5	41.6-153			MRL-5
Bromomethane	0.73000		"	0.74000		98.6	35.6-155			MRL-5
Chloroethane	0.56000		"	0.51000		110	39.4-160			
Vinyl bromide	0.74000		"	0.89000		83.1	50.2-144			MRL-5
Trichlorofluoromethane (Freon 11)	1.0200		"	1.1000		92.7	49.5-151			MRL-5
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	1.3000		"	1.5000		86.7	46-144			MRL-5
1,1-Dichloroethene (1,1-Dichloroethylene)	0.67000		"	0.74000		90.5	43.4-143			MRL-5
Acetone	0.45000		"	0.44000		102	46.9-157			
Isopropanol	0.97000		"	0.54000		180	32.3-160			MRL-5, QR-2
Carbon disulfide	0.61000		"	0.62000		98.4	48.8-144			MRL-5
3-Chloropropene	0.97000		"	1.2000		80.8	41.9-148			MRL-5
Methylene Chloride	0.64000		"	0.66000		97.0	44.2-148			MRL-5
Acrylonitrile	0.29000		"	0.41000		70.7	36.7-154			MRL-5
Methyl T-Butyl Ether (MTBE)	0.51000		"	0.77000		66.2	55.8-147			MRL-5
trans-1,2-Dichloroethene	0.70000		"	0.79000		88.6	51.7-148			MRL-5
Hexane	0.59000		"	0.70000		84.3	45.3-149			MRL-5
1,1-Dichloroethane	0.70000		"	0.78000		89.7	46.7-147			MRL-5
Vinyl acetate	0.45000		"	0.70000		64.3	44.6-157			MRL-5
Methyl Ethyl Ketone	0.41000		"	0.60000		68.3	53.8-143			MRL-5
cis-1,2-Dichloroethene	0.59000		"	0.77000		76.6	48.4-145			MRL-5
Ethyl Acetate	0.54000		"	0.73000		74.0	47.8-142			
Chloroform	0.81000		"	0.94000		86.2	49.5-147			MRL-5
Tetrahydrofuran	0.38000		"	0.60000		63.3	41-148			
1,1,1-Trichloroethane	0.94000		"	1.0000		94.0	48.8-148			MRL-5
Cyclohexane	0.59000		"	0.70000		84.3	45.8-148			MRL-5
Carbon Tetrachloride	1.1600		"	1.2000		96.7	44.1-152			MRL-5
1,2-Dichloroethane	0.76000		"	0.78000		97.4	48-147			MRL-5
Benzene	0.53000		"	0.63000		84.1	45.9-145			MRL-5
Isooctane	0.79000		"	0.97000		81.4	47.1-149			MRL-5
Heptane	0.69000		"	0.84000		82.1	41-155			MRL-5
Trichloroethene (Trichloroethylene)	0.90000		"	1.1000		81.8	46.3-153			MRL-5
1,2-Dichloropropane	0.69000		"	0.90000		76.7	43.4-150			MRL-5
1,4-Dioxane	0.41000		"	0.71000		57.7	11-157			



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Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Volatile Organics (VOA) - Quality Control

US-EPA, Region 4, SESD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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Batch 1112033 - V TO-15 Air Canister**MRL Verification (1112033-PS2)**

Prepared: 12/06/11 Analyzed: 12/08/11

Bromodichloromethane	1.1800		ug/m3	1.3000		90.8	49.8-149			MRL-5
cis-1,3-Dichloropropene	0.63000		"	0.88000		71.6	47.4-143			MRL-5
Methyl Isobutyl Ketone	0.61000		"	0.90000		67.8	34.5-152			MRL-5
Toluene	0.48000		"	0.74000		64.9	50.5-143			MRL-5
trans-1,3-Dichloropropene	0.60000		"	0.93000		64.5	46.3-142			MRL-5
1,1,2-Trichloroethane	0.83000		"	1.1000		75.5	52.7-143			MRL-5
Tetrachloroethylene (Tetrachloroethylene)	1.1400		"	1.3000		87.7	49.7-145			MRL-5
Methyl Butyl Ketone	0.55000		"	0.90000		61.1	27.8-144			MRL-5
Dibromo-chloromethane	1.1400		"	1.7000		67.1	44.5-149			MRL-5
1,2-Dibromoethane (EDB)	1.1400		"	1.5000		76.0	50.2-143			MRL-5
Chlorobenzene	0.71000		"	0.90000		78.9	50.9-143			MRL-5
Ethyl Benzene	0.50000		"	0.85000		58.8	52-144			MRL-5
(m- and/or p-)Xylene	1.0000		"	1.7000		58.8	54.7-145			MRL-5
o-Xylene	0.48000		"	0.86000		55.8	54.8-145			MRL-5
Styrene	0.39000		"	0.83000		47.0	46.9-148			MRL-5
Bromoform	10.700		"	14.000		76.4	12.1-166			MRL-5
1,1,2,2-Tetrachloroethane	1.1400		"	1.3000		87.7	47-153			MRL-5
4-Ethyltoluene	1.2500		"	2.0000		62.5	52.4-161			MRL-5
1,3,5-Trimethylbenzene	0.62000		"	0.92000		67.4	55.2-159			MRL-5
1,2,4-Trimethylbenzene	0.54000		"	0.95000		56.8	49.3-169			MRL-5
1,3-Dichlorobenzene	0.94000		"	1.2000		78.3	45.3-156			MRL-5
1,4-Dichlorobenzene	0.99000		"	1.2000		82.5	43.2-157			MRL-5
Benzyl chloride	0.70000		"	1.0000		70.0	25.5-152			MRL-5
1,2-Dichlorobenzene	0.93000		"	1.2000		77.5	48.1-159			MRL-5
1,2,4-Trichlorobenzene	2.3400		"	1.4000		167	10-221			MRL-5
Hexachlorobutadiene	0.98000		"	2.0000		49.0	23.2-204			
Naphthalene	1.9100		"	1.1000		174	50-150			MRL-5, QR-2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Science and Ecosystem Support Division
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D.A.R.T. Id: 12-0060
Project: 12-0060, West Palm Beach Gasification - Reported by Janet Muse

Notes and Definitions for QC Samples

- U The analyte was not detected at or above the reporting limit.
- B-3 Level in blank does not impact data quality
- J The identification of the analyte is acceptable; the reported value is an estimate.
- MRL-5 MRL verification for Air matrix
- Q-2 Result greater than MDL but less than MRL.
- QC-1 Analyte concentration low in continuing calibration verification standard
- QL-1 Laboratory Control Spike Recovery less than method control limits
- QL-2 Laboratory Control Spike Recovery greater than method control limits
- QR-1 MRL verification recovery less than lower control limits.
- QR-2 MRL verification recovery greater than upper control limits.

End of Report